THE

University of Maryland

DEPARTMENT OF CHEMISTRY

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FERTILIZER ANALYSES

Pages 4-23.

FERTILIZER REGISTRATIONS, Pages 24-28.

FERTILIZER LAW, Pages 29-32.

H. B. McDONNELL, Professor in Charge.

Published for the Benefit of Agriculture, and Sent Free to Anyone Desiring a Copy

Issued in the Months of February, May, August and November

ADDRESS

Department of Chemistry, University of Maryland

COLLEGE PARK, MD.

ANALYSES OF

Fertilizers Sold in Maryland

BY THE

UNIVERSITY OF MARYLAND

DEPARTMENT OF CHEMISTRY

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The tables on the following pages are made up of the results of the Analysis of fertilizers from February 1921, to July 1921, inclusive.

The majority of the samples analyzed are obtained by our sampling agents, the samples being taken while the goods are in transit, on vessels, wharves, cars or stations, from farmers' wagons, barns, etc. It is impossible for us to analyze all samples we collect; duplicates are generally omitted.

When a sample has been sent in by a farmer, his name, or initials, will be found after the "place of sampling." If "place of sampling" is not given, the sample has been made up two or more samples taken at different places. Before sending samples of fertilizer for analysis, farmers should always send for blank forms and directions, stating the number of blanks wanted. One blank is required for each sample. No sample will be analyzed unless taken and sent as required by law.

The figures in the columns headed "Ammonia," "Potash" and "Phosphoric Acid," are percentages, or pounds per hundred. To get pounds per ton multiply the per cent by 20. The columns headed "Found" contain the results found by analysis; those headed "Guaranteed" contain the essential parts of the guarantee as stamped on the bags.

The "Comparative Value Found" is calculated from the results of analysis as found in our laboratory: the "Comparative Value Guaranteed" is calculated from the manufacturers' guaranteed analysis as printed on the bags in each case using the following schedule:

SCHEDULE FOR CALCULATING COMPARATIVE VALUES

In Mixed Fertilizers:

For Nitrogen, calculated as Ammonia	25 cts. per lb.,	$5.00 per unit
For Potash (K_2O)	15 cts. per lb.,	3.00 per unit
For Available Phosphoric Acid	7½ cts. per lb.,	1.50 per unit
For Insoluble Phosphoric Acid	2 cts. per lb.,	0.40 per unit
For Insoluble Phosphoric Acid when from rock	1 ct. per lb.,	0.20 per unit

In Dissolved Rock:

Available Phosphoric Acid	7½ cts. per lb.,	1.50 per unit
Insoluble Phosphoric Acid	1 ct. per lb.,	0.20 per unit

In Tankage:

For Nitrogen, calculated as Ammonia	25 cts. per lb.,	5.00 per unit
For Phosphoric Acid	3 cts. per lb.,	0.60 per unit

In Ground Bone:

For Nitrogen, calculated as Ammonia	25 cts. per lb.,	5.00 per unit
For Phosphoric Acid	3 cts. per lb.,	0.60 per unit

Special attention is invitated to the comparative values per unit in the above schedule. It is very much easier to make calculations on the unit basis. Thus, if Dried Blood containing 10 per cent. of Ammonia sells for $4.00 per unit, it means that the selling price is the per unit value multiplied by the per cent of Ammonia, or in this case $4.00 per ton. In the case of a "Complete Fertilizer" with the analysis 2-8-2, if Ammonia is worth $5.00 per unit, Available Phosphoric Acid $1.50 per unit and Potash $2.00 per unit the value per ton would be $10.00, plus $12.00, plus $6.00, giving a value of $28.00 per ton.

Consumers, of fertilizer should, as a rule, purchase the "High-Grade" goods, as the price per unit and the cost of bags, handling, etc., is less for the actual amount of fertilizer received than is the case if "Low-Grade" fertilizers are used. The latter are made by using large amounts of filler.

FERTILIZER REGISTRATIONS (See Page 24).

Before selling fertilizers in Maryland the manufacturers are required to register the various brands in the office of the State Chemist and state the materials from which the Ammonia, Available Phosphoric Acid and Potash are derived.

The list in Table II,, page 24, is for registrations for 1921, supplementing the list printed in the February Bulletin, No. 91. In order to save space in printing, letters and symbols are used for the various materials, as per the following list:—

KEY TO SYMBOLS USED IN TABLE II.

AMMONIA (Nitrogen)	PHOSPHORIC ACID AVAILABLE	POTASH SOLUBLE
A—Ammonium Sulfate	A—Animal Matter	a—Ashes
B—Bone	B—Bone	C—Cement by-product
b—Base Goods	b—Base Goods	K—Kainit
C—Cyanamid	F—Fish	M—Muriate
c—Crab Scrap	R—Dissolved Rock	m—Sheep Manure
D—Blood	c—Crab Scrap	N—Nebraska Potash (Sulfate and Carbonate)
F—Fish	m—Sheep Manure	S—Sulfate
H—Humus or Peat, Treated	T—Tankage	T—Tobacco Stems
K—Tobacco Stems	*Total Phosphoric Acid in Bone	k—Kelp
M—C. S. Meal	**Total Phosphoric Acid in Untreated Rock	t—Trona (California)
m—Sheep Manure		c—Carbonate
N—Nitrate Soda		B—Sugar Beet Res. Char.
Na—Nitrate of Ammonia		D—Double Manure Salt
T—Animal Tankage		s—Cottonseed-meal
t—Garbage Tankage		n—Nitrate of Potash
L—Linseed Meal		

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	American Agricultural Chemical Co., N. Y., N. Y.											
41445	Acid Phosphate 16%	Oakland	.....	.....	.....	.....	.67	.....	16.53	16.00	$24.93	$24.00
41269	All Crop Fish Guano Revised	Baltimore	1.26	1.00	1.10	1.00	.90	.....	10.02	10.00	24.99	23.00
41315	Ammoniated Fertilizer A 1-10-0	Baltimore	1.01	1.00	.....	.....	1.05	.....	10.80	10.00	21.67	20.00
41291	Basic Lime Phosphate (Low Grade)	Baltimore	.....	.....	.....	.....	1.12	1.00	14.18	13.00	21.49	19.70
41242	Big Crop Fish Fertilizer	Baltimore	4.01	4.00	4.24	4.00	.62	.....	8.83	8.00	46.27	44.00
41351	Best Crop Formula	Baltimore	2.12	2.00	6.88	6.00	1.27	.....	11.03	10.00	48.30	43.00
41239	Big Crop 7% Potato Fertilizer	Baltimore	7.20	7.00	5.24	5.00	.52	.....	6.83	6.00	62.18	59.00
41260	Coe-Mortimer 5% Potato Fert.	Baltimore	4.86	5.00	4.87	5.00	1.05	.....	8.70	7.00	52.38	50.50
41358	Fish Guano	Rocky Ridge	1.18	1.00	1.04	1.00	1.05	.....	8.75	8.00	22.57	20.00
41352	Fish & Bone Compound	Baltimore	2.39	2.00	3.52	3.00	1.85	.....	8.40	8.00	35.85	31.00
41359	Golden Sheaf	Rocky Ridge	1.19	1.00	1.02	1.00	1.52	.....	8.18	8.00	21.89	20.00
41292	H. G. Phosphate & Potash	Baltimore	.....	.....	4.80	4.00	.55	.....	10.65	10.00	30.49	27.00
41379	Pride of Maryland	Baltimore	1.37	1.00	1.02	1.00	2.10	.....	9.35	10.00	24.78	23.00
41293	Pure Bone Meal	Baltimore	4.85	4.50	.....	.....	*21.55	*21.51	.....	.....	37.18	35.41
41270	Red Dragon Guano	Baltimore	2.03	2.00	2.02	2.00	1.30	.....	12.20	12.00	35.03	34.00
41271	The Pathfinder 1920	Baltimore	1.74	1.00	2.55	3.00	.69	.....	9.81	9.00	31.35	27.50
	A. A. C. Co. (Canton), Balto., Md.											
41440	Baker's Standard Guano	Baltimore	1.74	2.00	3.44	3.00	.97	.....	8.83	8.00	32.66	31.00
41360	Harrow Brand Crop Grower	Thurmont	1.25	1.00	1.12	1.00	1.07	.....	8.93	8.00	23.64	20.00
41361	Potato & Vegetable Manure	Thurmont	1.11	1.00	3.02	3.00	.87	.....	10.03	9.00	30.01	27.50
	A. A. C. Co. (Detrick), Balto., Md.											
41262	Gold Basis	Baltimore	6.93	7 00	5.16	5.00	.35	.....	7.70	6.00	61.82	59.00
41329	Imperial Compound	Baltimore	1.04	1.00	1.88	2.00	.77	.....	8.73	8.00	24.25	23.00
	Kangaroo Komplete Kompound	Baltimore	2.18	2.00	3.60	3.00	.85	.....	8.70	8.00	35.09	31.00

41262	Gold Basis	Baltimore	6.93	7.00	5.16	5.00	.35		7.70	6.00	61.82	59.00		
41329	Imperial Compound	Baltimore	1.04	1.00	1.88	2.00	.77		8.73	8.00	24.25	23.00		
41316	Kangaroo Komplete Kompound	Baltimore	2.18	2.00	3.60	3.00	.85		8.70	8.00	35.09	31.00		
	A. A. C. Co. (Lazaretto), Balto, Md.													
41294	Crop Grower	Baltimore	2.14	2.00	2.12	2.00	.62		9.28	8.00	31.23	28.00		
41306	Tomato Compound	Baltimore	1.18	1.00	4.04	4.00	.82		8.38	8.00	30.92	29.00		
	A. A. C. Co., (Nickerson), Balto., Md.													
41264	H. G. Vegetable Compound	Baltimore	6.79	7.00	5.56	5.00	.50		7.45	6.00	62.01	59.00		
	A. A. C. Co. (Slingluff), Balto., Md.													
41229	10% Tobacco Plant Bed Fert	Baltimore	9.49	10.00	2.04	2.00	.35		6.40	5.00	63.31	63.50		
	A. A. C. Co. (Susquehanna), Balto., Md.													
41272	Ammoniated Super Phosphate	Baltimore	1.76	2.00	2.16	2.00	.85		8.50	8.00	28.37	28.00		
41273	Potato and Tobacco Phosphate	Baltimore	2.04	2.00	3.02	3.00	.82		8.18	8.00	31.86	31.00		
41274	XXV Phosphate	Baltimore	1.19	1.00	1.22	1.00	.82		8.38	8.00	22.51	20.00		
	A. A. C. Co. (Zell), Balto, Md.													
41275	Special Compound	Baltimore	3.03	3.00	4.07	4.00	.75		8.50	8.00	40.41	39.00		
	American Fertilizing Co., Balto., Md.													
41290	Acid Phosphate H. G.	Baltimore					1.25		16.30	16.00	24.70	24.00		
41252	Acid Phosphate H. G.	Baltimore					.97		16.08	16.00	24.31	24.00		
41494	Acid Phosphate H. G.	Vienna (H. H. R.)					1.30		16.80	16.00	25.46	24.00		
41295	Ammoniated Crop Compound	Baltimore	1.02	1.00	1.90	2.00	1.12	1.00	8.13	8.00	23.45	23.40		
41296	Best Crop Formula	Baltimore	2.12	2.00	5.54	6.00	1.50		10.50	10.00	43.57	43.00		
41380	Best Potato Formula	Baltimore	4.16	4.00	6.40	6.00	1.00		9.80	8.00	55.10	50.00		
41374	Champion Ammoniated Phos	Baltimore	2.20	2.00			2.02		12.68	10.00	30.83	25.00		
41297	Champion Grain Grower	Baltimore	1.11	1.00	3.02	4.00	1.35		8.75	8.00	28.28	29.00		
41253	Early Trucker Special	Baltimore	5.03	5.00	5.36	5.00	.55	1.00	7.40	6.00	52.55	49.40		
41276	Early Truckers Special	Baltimore	5.07	5.00	5.02	5.00	.80	1.00	5 60	6.00	49.13	49.40		
41243	Eastern Shore Potato Special	Baltimore	7.16	7.00	5.16	5.00	.55	1.00	6.45	6.00	61.18	59.40		
41267	Excelsior Guano	Baltimore	1.84	2.00	4.76	5.00	1.42	1.00	8.88	8.00	37.37	37.40		
41325	Fish & Bone Compound	Baltimore	2.24	2.00	3.08	3.00	1.80	1.00	9.30	8.00	35.11	31.40		
41363	Fish & Bone Compound	Woodsboro	2.03	2.00	3.03	3.00	1.62	1.00	9.28	8.00	33.81	31.40		
41254	Formula for Wheat & Corn	Baltimore			4.28	5.00	1.42		10.28	10.00	28.54	30.00		
41326	Genuine Improved Kainit	Baltimore			15.52	12.00								
41364	Grain and Grass Formula	Woodsboro	1.74	2.00	3.66	4.00	1.52	1.00	11.43	10.00	37.44	37.40		
41405	Grain and Grass Grower	Secretary	1.57	1.00	2.40	3.00	2.00	1.00	10.85	9.00	32.13	27.90		
41362	Special Fish Guano	Emmitsburg	1.06	1.00			1.55		10.55	10.00	21.75	20.00		
41244	Stable Manure Substitute	Baltimore	2.85	3.00	5.61	4.00	.92	1.00	6.33	7.00	40.95	37.90		

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	American Fertilizing Co., Balto.,											
41298	Strawberry & Pea Special.....	Baltimore.....	5.67	7.00	1.43	1.00	.37	1.00	6.08	6.00	$41.91	$47.40
	Armour Fertilizer Works, Balto., Md.											
41317	Big Crop Acid Phosphate 16%	Baltimore.....	.....	.....	.....	.....	.55	.....	17.50	16.00	26.36	24.00
41327	Big Crop Fertilizer 5-8-5.....	Baltimore.....	4.91	5.00	5.03	5.00	.50	.....	8.90	8.00	53.34	52.00
41282	Big Crop Fertilizer 4-8-4.....	Baltimore.....	4.33	4.00	4.57	4.00	.77	.....	8.08	8.00	47.79	44.00
41236	Big Crop Fertilizer.....	Baltimore.....	7.06	7.00	5.64	5.00	.60	.....	6.20	6.00	61.76	59.00
26906	Big Crop Fertilizer.....	Princess Anne (C. C. P.)	6.71	7.00	5.02	5.00	.55	.....	6.45	6.00	58.51	59.00
41237	Big Crop Fertilizer.....	Baltimore.....	9.56	10.00	.....	.....	.40	.....	6.10	5.00	57.11	57.50
41283	Big Crop Fertilizer.....	Baltimore.....	3.04	3.00	3.26	3.00	.77	.....	8.13	8.00	37.49	36.00
41406	Big Crop 2-8-5.....	Rising Sun.....	2.13	2.00	4.63	5.00	1.10	.....	8.65	8.00	38.11	37.00
41353	Crop Grower.....	Baltimore.....	1.25	1.00	2.36	2.00	.62	.....	9.23	8.00	27.43	23.00
41343	Royal Ammoniated.....	Chestertown.....	1.19	1.00	3.72	4.00	1.20	.....	9.10	8.00	31.24	29.00
41381	York State Special	Baltimore.....	1.25	1.00	4.04	4.00	.65	.....	9.85	8.00	33.41	29.00
	Associated Chemical Co., Hagerstown, Md.											
41391	PreRaw Bone.....	Hancock.....	4.74	4.50	.....	.....	*21.55	*20.00	.....	.....	36.63	34.50
	Baltimore Fertilizer Co., Balto., Md.											
41428	Acid Phosphate 16%.....	Bel Air.....	.....	.....	.....	.....	.27	.....	17.88	16.00	26.87	24.00
41375	Honest Ammoniated.....	Baltimore.....	2.05	2.00	2.60	2.00	.70	.....	9.15	8.00	32.06	28.00
41442	Honest Potato Grower.....	Glyndon.....	.92	1.00	3.76	3.00	.67	.....	10.78	9.00	32.32	27.50
41277	Honest 7% Special.....	Baltimore.....	4.83	7.00	.....	.....	.85	.....	9.75	6.00	39.37	44.00
41238	Honest Trucker.....	Baltimore.....	5.15	5.00	4.06	5.00	.65	.....	9.05	6.00	51.77	49.00
41447	Old Honesty (Low Grade).....	Glyndon.....	.53	.50	2.32	2.00	1.25	.....	8.02	8.00	22.14	20.50

41447	Old Honesty (Low Grade)	Glyndon	.53	.50	2.32	2.00	1.25		8.02	8.00	22.14	20.50
	Baltimore Pulverizing Co., Balto., Md.											
41318	Penniman's Excelsior	Baltimore			2.84	2.00	.80		13.20	12.00	28.48	24.00
41300	Potato Climax 4-8-5	Baltimore	4.06	4.00	6.50	5.00	.37		8.78	8.00	53.12	47.00
42376	Royal Compound	Baltimore	2.01	2 00	1.16	1.00	.97		12.58	8.00	32.79	25.00
41278	7% Potato Guano 7-6-5	Baltimore	7.42	7.00	5.04	5.00	.35		6.45	6.00	62.04	59.00
41320	Special Potato Mixture	Baltimore	2.03	2.00	3.40	3.00	.85		7.80	7.00	32.39	29.50
	Baugh & Sons Co., Baltimore, Md.											
41321	Acid Phosphate 14%	Baltimore					1 42		14.18	14.00	21.55	21.00
41333	Acid Phosphate 16%	Baltimore					1 17		16.43	16.00	24.38	24.00
26924	Acid Phosphate 16%	Centr (O. C. J)					.87		16.93	16.00	25.57	24.00
41377	Accomac Sweet Potato Guano	Baltimore	3.11	3.00	7.90	7.00	.82		8.13	7.00	51.78	46.50
41308	Alkaline Super Phosphate	Baltimore			2.12	2.00	.95		10.02	10.00	21.58	21.00
41245	Animal Base & Potash Comp	Baltimore	2.30	2.00	2.46	2.00	1.22		8.03	8.00	31.42	28.00
41322	Bone Meal	Baltimore	4.15	4.00			*19.45	*18.30			32.42	30.98
41246	Complete Animal Base Fert	Baltimore	2.17	2.00	4.92	5.00	.97		8.73	8.00	39.10	37.00
41247	Corn & Oats Fertilizer	Baltimore	2.24	2.00			1.25		10.65	10.00	27.68	25.00
41443	Excelsior Guano	Baltimore	1.55	1.00	4.56	4.00	2.22		8.02	8.00	34.35	29.00
41255	Farmers Friend Guano	Baltimore	5.05	5.00	7.38	7.00	.70		7.60	6.00	59.07	55.00
41301	Fish, Bone & Potash	Baltimore	4.15	4.00	4.06	4.00	1.07		8.78	8.00	46.53	44.00
41284	General Crop Grower	Baltimore	1.40	1.00	1.43	1.00	2.20		8.05	8.00	24.40	20.00
41285	Grand Rapid Guano	Baltimore	3.05	3.00	3.55	3.00	1.35		8.35	8.00	38.97	36.00
41256	5-8-5 Fertilizer	Baltimore	5.03	5.00	5.28	5.00	.77		9.48	8.00	55.52	52.00
41230	New Process 10% Guano	Baltimore	9.82	10.00			.75		6.15	5.00	58.63	57.50
41382	Old Stand By Diss. Anim. Base	Baltimore	2.35	2.00			1.15		13.40	12.00	32.31	28.00
41257	Peruvian Guano Substitute	Baltimore	5.03	5.00	4.94	5.00	.90		7.95	6.00	52.26	49.00
41248	Phosphate & Potash Mixture	Baltimore			5.05	5.00	.95		12.10	12.00	33.49	33.00
41258	7% Potato Guano	Baltimore	7.25	7.00	5.33	5.00	.65		7.35	6.00	63.53	59.00
41344	Raw Bone Meal	Greensboro	4.69	4.00			*19.60	*18.30			35.21	30.98
41310	Special Potato Manure	Baltimore	2.01	2.00	5.04	5.00	1.00		8.60	8.00	38.47	37.00
41330	Special Vegetable Compound	Baltimore	1.18	1.00	3.04	3.00	.97		9.23	8.00	29.26	26.00
41334	Tomato Compound	Baltimore	2.20	2.00	2.16	2.00	1 20		8.55	8.50	30.79	28.75
41249	Truckers' Favorite	Baltimore	3.24	3.00			1.07		11.03	10.00	33.18	30.00
41354	Vegetable Compound	Baltimore	1.26	1.00	3.20	3.00	1.72		9.13	9.00	30.29	27.50
	Beckley Fertilizer Co., Half Way, Md.											
41392	Fish Mixture	Half Way	1.67	1.50			.62		11.68	10.00	26.12	22.50
41393	Potash Mixture	Half Way			4.32	4.00	.72		10.48	10.00	28.82	27.00

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	N. T. Bennett Fertilizer Co., New	**Windsor, Md.**										
41371	Acid Phosphate 16%.....	New Windsor.....	.....	.....	.....	.....	.52	.....	17.28	16. 00	$26.02	4.00
	Berg Co., Philadelphia, Pa.											
41429	Ground Animal Tankage.....	Bel Air.....	5.55	5.50	.....	.....	*16.20	*15.00	.....	.....	37.47	36.50
	Bowker Fertzr. Co., Boston, Mass.											
41286	All Round Fertilizer.....	Baltimore..	3.02	3.00	3.95	4.00	.77	.....	8.63	8.00	40.21	39.00
41280	Sure Crop Phosphate Revised...	Baltimore.....	1.19	1.00	2.07	2.00	.92	.....	8.13	8.00	24.73	23.00
	C. H. Braun Son, Baltimore, Md.											
41433	Fertilizer	Baltimore.....	3.21	3.00	2.80	3.00	9.05	.....	6.02	8.00	37.10	36.00
	Herbert Bryant's Son, Alexandria,	**Va.**										
41335	Fish, Bone and Potash.....	Gaithersburg.....	1.93	2.00	2.12	2.00	.45	.....	10.65	9.00	32.17	29.50
41336	Standard Fish & Bone.....	Gaithersburg.....	2.39	2.00	.....	.....	1.45	.....	12.25	11.00	30.91	26.50
	Central Chemical Co., Hagerstown,	**Md.**										
41370	Ammoniated Phosphate.....	Woodsboro.....	1.18	1.00	1.80	2.00	.70	.....	10 02	9.00	26.61	24.50
41383	Canner's Special.....	Baltimore.....	1.77	2.00	5.36	5.00	.95	.....	10.05	8.00	40.39	37.00
41394	Commonwealth.....	Hancock	.....	.....	2.46	2.00	.30	.....	10.70	10.00	23.49	21.00
41365	Corn & Truck Grower	Myersville.....	3.72	4.00	3.02	3.00	.47	.....	9.28	8.00	41.77	41.00
41395	Fish Compound.....	Hancock.....	1.52	1.50	.....	.....	.82	.....	10.83	10.00	24.18	22.50
41355	Grow-All Crown Jewel.....	Baltimore.....	1.09	1.00	3.12	3.00	.80	.....	10.35	9.00	30.66	27.50
41345	Grow-All Dissolved Phos. 16%	Chestertown.....	.....	.....	.....	.....	.70	.....	17.30	16.00	26.09	24.00
41441	Gro-All Excelsior.....	Baltimore.....	1.95	2.00	3.32	4.00	.92	.....	9.68	8.00	34.60	34.00

41232	Gro-All Tobacco Bed Special	Baltimore	6.27	7.00			.52		7.23	4.00	42.21	41.00

41441	Gro-All Excelsior	Baltimore	1.90	2.00	3.32	4.00	.32		9.03	8.00	32.00	24.00
41232	Gro-All Tobacco Bed Special	Baltimore	6.37	7.00			.52		7.23	4.00	42.91	41.00
41234	Gro-All Tobacco Bed Spec. No 2	Baltimore	8.26	10.00			.75		6.90	4.00	51.95	56.00
41485	Gro-All Truck & Potato Spec	Baltimore	5.12	5.00	5.36	5.00	.65		8.50	8.00	54.69	52.00
41366	Golden Sheaf	Monrovia	1.09	1.00	1.12	1.00	.58		8.25	8.00	21.41	20.00
41396	Penn Special Fertilizer	Smithsburg			4.56	4.00	.40		11.40	10.00	30.86	27.00
41397	Phoenix Brand Fertilizer (L. G)	Hancock	.78	.50	.80	.50	.50		8.60	8.00	19.40	16.00
41398	Planters Mixture	Hancock	2.17	2.00			.50		11.35	10.00	28.08	25.00
41367	Potato Special	Myersville	4.16	4.00	7.24	7.00	.77		8.53	8.00	55.63	67.00
41368	Pride of the Valley	Myersville	1.01	1.00			.57		11.53	10.00	22.58	20.00
41384	Special	Baltimore			2.40	2.00	.75		12.85	12.00	26.63	24.00
41899	Valley Mixture	Smithsburg	2.13	2.00	2.08	2.00	1.10		9.35	8.00	31.36	28.00
	Chesapeake Plant & Animal Food	**Co., Balto., Md.**										
41490	Formula No. 1	Baltimore	4.38	4.50	8.02	6.25	1.70		9.65	8.95	63.62	54.68
41311	2-8-5 Fertilizer	Baltimore	2.20	2.00	6.48	5.00	1.67		8.48	8.00	43.83	37.00
	Josiah Cope, Baltimore, Md., (A. A.	**C. Co.)**										
41407	Bono Phosphate	Conowingo	1.50	1.00	3.12	3.00	.95		9.85	9.00	32.02	27.50
41385	Potato, Corn & Tobacco	Baltimore	2.17	2.00	4.38	4.00	1.05		9.20	8.00	38.21	34.00
41261	Potato, Corn & Tobacco	Baltimore	2.62	2.00	4.31	4.00	.60		9.35	8.00	40.30	34.00
	Dorchester Fertilizer & Lime Co.,	**Cambridge, Md.**										
41356	Fish Mixture	Baltimore	2.02	2.00	2.08	2.00	1.25		11.15	8.00	33.57	28.00
41409	4-8-4	Cambridge	4.06	4.00	4.20	4.00	2.80		8.75	8.00	47.15	44.00
41410	Old Dorset	Cambridge	1.01	1.00	4.44	4 00	1.27		9.98	8.00	33.85	29.00
41357	Our Special	Baltimore	1.14	1.00	2.04	2.00	1.12		9.83	8.00	27.02	23.00
41411	Our No. 2	Cambridge	2.17	2.00	2.30	2.00	2.67		9.78	8.00	33.42	28.00
	Eastern Guano Co., New York, N. Y.											
41400	Economy Brand	Hancock	2.12	2.00	2.02	2.00	.87		12.43	12.00	35.66	34.00
41401	Excelsior	Hancock			4.24	5.00	.50		8.90	8.00	26.17	27.00
41402	Farmers Pride	Hancock	2.12	2.00	2.04	2 00	1 25		9.95	8.00	32.15	28.00
41408	Royal Truck Fertilizer	Hancock	2.68	3.00			1.22		16.53	10.00	38.69	30.00
41404	Valley Queen	Hancock	1.11	1 00	2.60	3.00	1.42		9.68	9.00	28.44	27.50
	Eureka Chemical Co., Baltimore,	**Md.**										
41413	Farmers Favorit	Rising Sun	2.03	2.00	2.04	2.00	1.80	.50	9.55	8.00	31.32	28.20
	Eureka Fertilizer Co., Perryville,	**Md.**										
41412	Corn & Potato	Perryville	1.13	1.00	2.08	4.00	1.30	1.00	10.70	8.00	28.46	29.40

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Farmers Fertilizer & Feed Co., We	**stminster, Md.**										
41372	Carroll Phosphate (Low Grade)....	New Windsor.....	.84	.50	1.72	2.00	3.47	1.00	9.88	8.00	$25.57	$20.90
41337	Potato Fertilizer.....	Westminster.....	2.24	2.00	4.34	5.00	.72	1.00	9.93	8.00	39.41	37.40
41338	XX Phosphate.....	Westminster.....	1.04	1.00	3.36	3.00	1.50	.....	10.75	9.00	32.01	27.50
	W. S. Farmer & Co., Baltimore,	**Md. (A. A. C. Co.)**										
41287	Anne Arundel Trucker.....	Baltimore.....	5.09	5.00	5.34	5.00	1.12	.....	7.13	7.00	52.62	50.50
41302	Clyde Brand 1916.....	Baltimore.....	1.09	1.00	1.12	1.00	.85	.....	8.65	8.00	22.13	20.00
41288	4-8-4 Fertilizer.....	Baltimore.....	4.33	4.00	3.79	4.00	.85	.....	8.10	8.00	45.51	44.00
41386	Potash Guano.....	Baltimore.....	1.35	1.00	4.56	4.00	1.30	.....	8.15	8.00	33.18	29.00
41263	7% Potato Guano.....	Baltimore.....	7.08	7.00	5.68	5.00	.45	.....	7.65	6.00	64.10	59.00
	Farmers & Planters Co., Salisbury,	**Md.**										
41415	Acid Phosphate H. G.....	Salisbury.....	.....	.....	.....	.....	.30	.....	17.20	16.00	25.86	24.00
41416	Early Truck	Salisbury.....	3.11	4.00	4.80	4.00	1.10	.....	9.15	8.00	44.12	44.00
41417	Early Vegetable.....	Salisbury.....	4.54	5.00	5.04	5 00	.82	.....	9.48	8.00	52.37	52.00
41418	Fish Mixture.....	Salisbury.....	2.13	2.00	2.48	2.00	1.07	.....	9.23	8 00	32.37	28 00
41419	General Crop Grower.....	Whaleyville.....	1 11	1.00	2.02	2.00	1.25	.....	11.95	10.00	30 04	26.00
41444	Peerless (Low Grade).....	Salisbury.....	1.11	.50	2.16	2.00	1.30	.....	8.60	8.00	25.65	20.50
41421	Special Fish Mixture.....	Preston.....	2.42	2.00	6.44	5.00	.92	.....	8.88	8.00	45.11	37.00
41422	Sweet Potato Special.....	Salisbury.....	3.11	3.00	7.10	7.00	1.00	.....	8.10	8.00	49.40	48.00
41423	Truckers Mixture.....	Salisbury.....	2.42	3.00	4.02	4.00	.70	.....	9.02	8.00	37.97	39.00
	F. Mehring Fertilizer Works, Inc.,	**Keymar, Md.**										
41425	Acid Phosphate 16%	Keymar.....	.....	.....	.....	.....	.25	.....	17.50	16.00	26.30	24.00
41426	Big Four Crop Grower.....	Keymar.....	1.09	1.00	2.08	2.00	1.77	.....	9.13	9.00	26.10	24.50

41426	Big Four Crop Grower	Keymar	1.09	1.00	2.08	2.00	1.77		9.13	9.00	16.10	24.50
41427	Half & Half Mixture	Keymar	1.54	1.25			.32		16.63	15.00	32.78	28.75
	Griffith & Boyd Co., Balto., Md.											
41434	Acid Phosphate 16%	Baltimore					.72		16.88	16.00	25.46	24.00
41435	Farmers Potato Manure	Baltimore	1.48	1.00	5.44	6.00	1.37		9.33	8.00	38.27	35.00
41235	Fish, Bone & Potash	Baltimore	1.64	1.75	1.54	2.00	.80		7.60	7.00	24.54	25.25
41281	Fish & Potash Guano	Baltimore	2.12	1.75	3.38	3.00	.70		7.45	7.00	32.20	28.25
41312	General Plant Food Fertilizer	Baltimore	1.23	1.00	2.12	2.00	1.42		8.78	8.00	26.25	23.00
41387	Special Formula	Baltimore	1.86	2.00	4.56	4.00	.87		10.68	10.00	39.35	37.00
41331	Special Grain Grower	Baltimore			2 20	2.00	1.25		11.05	10.00	23.43	21.00
41378	Stable Manure Substitute	Baltimore	3.62	3.50	3.38	4.00	.55		7.75	5.25	40.03	37.38
41388	XX Potato Manure	Baltimore			4.84	5.00	1.25		11.35	10.00	31.80	30.00
	Griffith & Turner Co., Balto., Md.											
41303	Amm'd Alkaline Plant Food(L.G.)	Baltimore	1.09	1.00	1.88	1.50	1.15		7.60	6.00	22.95	18.50
	Hampstead Fertzr. Co., Hampstead, Md.											
41339	Acid Phosphate 16%	Hampstead					.52		17.63	16.00	26.55	24.00
41340	1-8-2	Hampstead	1.08	1.00	1.66	2.00	.70		9.10	8.00	24.37	23.00
41341	2-8-4	Hampstead	2.13	2.00	3.80	4.00	1.27		9.08	8.00	36.18	34.00
	J. G. Harr, Baltimore, Md.											
41313	Fish & Potash Mixture	Baltimore	2.06	2.00	2.94	2.00	1.32		8.73	8.00	32.75	28.00
	S. M. Hess & Bro., Inc., Philadelphia, Pa.											
41259	Fish & Potash Manure	Baltimore	2.06	2.00	3.05	3.00	1.05		9.55	8.00	34.20	31.00
41323	Special Potato Manure	Baltimore	4.74	4.00	5.84	6.00	.67		8.63	8.00	54.44	50.00
41279	Superior Potato Manure	Baltimore	4.21	4.00	3.96	4.00	.62		8.08	8.00	45.30	44.00
41430	Superior Potato Manure	Baltimore	4.08	4.00	4 20	4.00	.85		8.55	8.00	46.17	44.00
41332	Wheat, Corn & Grass Manure	Baltimore	1.06	1.00	2.02	2.00	.80		9.05	8.00	25.26	23.00
41439	Wheat, Corn & Grass Manure	Baltimore	1.08	1.00	1.76	2.00	1.42		10.28	8.00	26.67	23.00
	Wm. H. Hood, Mt. Airy, Md.											
41378	Special Mixture	Mt. Airy	1.01	1.00	1.02	1.00	.85		12.75	8.00	27.58	20.00
	Horsey, Roe & Co., Greensboro, Md.											
41347	Crop Grower	Greensboro	1.02	1.00	3.60	4.00	1.92		8.68	8.00	29.69	29.00
41348	1-8-2	Greensboro	1.52	1.00	2.02	2.00	1.32		8.88	8.00	27.51	23.00
41349	2-8-3	Greensboro	2.01	2.00	2.36	3.00	1.22		8.83	8.00	30.87	31.00
41350	12-5	Greensboro			4.84	5.00	.30		13.30	12.00	34.53	33.00

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Hubbard Fertilizer Co., Balto, Md.											
41369	Phosphate 16%	Emmitsburg	.....	.....	.....	.....	1.27	.....	17.63	16.00	$26.70	$24.00
41314	Farmers IXL Fertilizer	Baltimore	2.01	2.00	2.80	2.00	1.15	.....	8.20	8.00	31.21	28.00
41342	Fish Mixture	Woodbine	1.25	1.00	1.76	1.00	1.27	.....	9.38	8.00	26.11	20.00
41289	5-8-5 Fertilizer	Baltimore	5.07	5.00	5.22	5.00	.77	.....	9.18	8.00	55.09	52.00
41241	5% Royal Seal	Baltimore	5.09	5.00	5.24	5.00	.62	.....	6.88	6.00	51.74	49.00
41324	5% Royal Seal	Baltimore	5.24	5.00	4.72	5.00	.67	.....	7.63	8.00	52.08	52.00
41304	Money Maker Fertilizer	Baltimore	2 05	2.00	4.34	5.00	1.05	.....	9.60	8.00	38.09	37.00
41233	1-8-3 Fertilizer	Baltimore	1.28	1.00	2.76	3.00	1.62	.....	8.38	8.00	27.90	26.00
41390	Special Potato and Tomato	Baltimore	2.42	2.00	5.66	5.00	.50	.....	7.85	7.00	41.06	35.50
41231	Tobacco Bed Mixture	Baltimore	11.10	10.00	.....	.....	.25	.....	2.45	2.00	59.28	53.00
	M. P. Hubbard Co., Inc., Balto., Md.											
26925	Bermuda 7% Guano	Snow Hill	7 01	7.00	5.84	5.00	1.00	.....	6.40	6 00	62.57	59.00
41251	Everybody's Formula	Baltimore	3.41	3.00	.....	.....	.67	.....	9.88	9.00	32.14	28.50
41305	Excelsior 1-8-2	Baltimore	1.02	1.00	2.04	2.00	.32	.....	8.68	8.00	24.37	23.00
41436	Harvest King	Baltimore	1.31	1.00	2.76	3.00	.70	.....	10.75	9.00	31.24	27.50
41 346	Special Potato & Tomato	Chestertown	2.01	2.00	5.68	5.00	.82	.....	8.18	7.00	39.69	35.50
41 424	Special 2-8-10	Sharptown	2.32	2.00	7.72	10.00	2.05	.....	8.30	8.00	48.03	52.00
	Huston, Darbee Fertilizer Co., Sea ford, Del.											
41488	Acid Phosphate	Cambridge	.....	.....	.....	..	1.20	.....	17.30	16.00	26.19	24.00
41489	Kainit 20%	Cambridge	.....	.....	15.84	15.00	.....	.....	.....	.....	.....	.....
41492	Nitrate of Soda	Cambridge	19.12	18.25	.....	.....	.....	.....	.....	.....	.....	.....
41491	Sulphate of Ammonia	Cambridge	25.16	25.00								

41491	Sulphate of Ammonia	Cambridge	25.16	25.00								
41493	Tankage	Cambridge	9.10	8.00			*10.45				51.77	40.00
	Lancaster Chemical Co., Lancaster, Pa.											
41941	Dewey Brand	Perryville	1.35	1.50	1.68	2.00	1.55	1.00	8.90	8.00	25.76	25.90
41942	Dissolved Animal Bone & Potash	Perryville	2.10	2.00	2.96	4.00	.97	1.00	10.33	10.00	35.27	37.40
41943	Economist Fertilizer (L. G.)	Perryville					.67	1.00	14.13	10.00	21.33	15.20
41944	Keystone Brand (Low Grade)	Perryville	1.13	1.00			1.37	1.00	10.43	8.00	21.85	17.40
41945	Phosphoric Acid Special	Perryville					.47	1.00	16.38	16.00	24.66	24.20
41946	Special Potash Manure	Perryville			1.84	2.00	1.80	1.00	9.70	10.00	20.43	21.20
41947	Success Brand	Perryville	1.14	1.00	2.84	4.00	1.22	1.00	10.23	8.00	30.06	29.40
26984	Wheat Special	Perryville	1.91	2.00			1.25	1.00	11.15	10.00	26.78	25.40
	Lister's Agrl. Chem. Works, New ark, N. J.											
41860	Corn & Potato Fertilizer	Baltimore	2.18	2.00	3.16	3.00	.85		8.25	8.00	33.10	31.00
41771	5% Vegetable Fertlizer	Baltimore	4.86	5.00	5.04	5.00	.67		8.23	7.00	52.04	50.50
41861	Harvest Queen	Baltimore	1.02	1.00	2.72	3.00	1.07		9.63	9.00	28.14	27.50
41777	Plant Bed Guano	Baltimore	10.02	10.00	2.24	2.00	.40		6.40	5.00	66.58	63.50
41857	Special Truck Fertilizer	Baltimore	3 45	4.00	4.48	4.00	.60		9 20	8.00	44.73	44.00
41931	Stand Superphosphate of Lime	Baltimore	3.17	3.00	2.04	2.00	.70		9.60	9.00	35.65	34.50
41858	3-6-6 Fertilizer	Baltimore	2.88	3.00	7.16	6.00	.55		7.85	6.00	47.88	42.00
	Martin Fertilizer Co., Phila., Pa.											
41787	Bull Head Fertilizer	Baltimore	2.46	3.00	3.14	3.00	.87		8.53	8.00	34.87	36.00
41847	Bull Head Br. Potato Fert	Baltimore	6.02	7.00	4.54	5.00	.47		9.03	6.00	57.46	59.00
41994	Dissolved Organic Compound	Baltimore	1.43	1.00	3.08	4.00	2.85		9.25	8.00	31.41	29.00
41848	Early Truck & Vegetable Grower	Baltimore	3.91	4.00	4.20	5.00	2.22		9.38	8.00	47.11	47.00
41802	Potato Fertilizer	Baltimore	6.88	7.00	5.36	5.00	2.07		9.93	6.00	66.21	59.00
	Maryland Milling & Supply Co., Sykesville, Md.											
41879	Corn, Oats & Grass Mixture	Sykesville	1.28	1.00	1.04	1.00	.33		8.92	8.00	23.08	20.00
41880	Fish, Bone & Potash	Sykesville	1.13	1.00	2.04	2.00	.52		11.18	9.00	28.75	24.50
41881	Phosphate and Potash	Sykesville			2.18	2.00	.25		10.25	10.00	21 97	21.00
41882	Potato Mixture	Sykesville	1.43	1.00	4.28	4.00	.23		9.07	8.00	33.69	29.00
	Massey & Kilbourne, Chestertown, Md.											
41891	Acid Phosphate 16%	Chestertown					.70		17.40	16.00	26.24	24.00
41893	Corn Super Phosphate	Chestertown	1.28	1.00	1.16	1.00	1.20		9.40	8.00	24.46	20.00
41892	Crop Producer Super Phosphate	Chestertown	1.18	1.00	2.56	3.00	1.25		10.65	9.00	30.06	27.50
41894	Propagator Super Phosphate	Chestertown	2.30	2.00	2.03	2.00	1.55		9.80	8.00	32.91	28.00
41895	10-5 Super Phosphate	Chestertown			4.84	5.00	1.00		11.05	10.00	31.30	30.00

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
41896	Try Me Super Phosphate (L. Gr.)	Chestertown	.77	.50	2.44	2.00	1.85	.....	10.30	9.00	$27.36	$22.00
	Miller Fertilizer Co., Balto., Md.											
41791	Acid Phosphate 16%	Baltimore.	.....	.....	.....	.....	.65	.50	16.25	16.00	24.51	24.10
41840	Ammoniated Dissolved Bone	Baltimore.	2.03	2.00	2.08	2.00	1.05	.....	8.85	8.00	30.09	28.00
41908	Clermont	Graceham	1.08	1.00	2.04	2.00	.80	.50	11.20	10.00	28.64	26.20
41909	Club Brand (Low Grade)	Graceham	.72	.50	1.88	2 00	.90	.50	9.35	8.00	23.63	20.70
41859	Harvest Queen	Baltimore	1.11	1.00	3.03	3.00	1.30	.50	10.35	9.00	30.69	27.70
41792	H. G. Potato Fertilizer	Baltimore	7.13	7.00	5.20	5.00	.55	.50	7.10	6.00	62.12	59.20
41987	Hustler Phosphate	Alesia	1.09	1.00	1.08	1.00	1.10	....	8.30	8.00	21.58	20.00
41805	No, 1 Vegetable & Potato Grower	Baltimore.	4.01	4.00	4.44	4.00	1.00	.50	8.05	8.00	45.85	44 20
41806	Potato & Vegetable Grower	Baltimore.	2.01	2.00	3.05	3.00	1.67	.....	9.08	9.00	38.49	32.50
41781	Standard Phosphate	Baltimore.	3.11	3.00	3.32	3.00	77	.50	9.48	8.00	40.04	36.20
	J. B. Nichols & Son, Balto., Md.											
41793	Farmers Friend	Baltimore.	3.74	4.00	1.56	1.00	.50	.....	8.60	8 00	36.48	35.00
	Nitrate Agencies Co., New York, N. Y.											
41480	Acid Phosphate 16%	Marion (S. C. A. A.)	.....	.....	.....	.....	.30	.....	17.30	16.00	26.01	24.00
41479	Muriate of Potash	Princess Anne (S.C.A.A.)	.....	.....	53.40	49.00	.....	.....	.....	.....	.....	.....
26909	Raw Bone Meal	Princess Anne (S.C.A.A.)	4.15	4.00	.....	.....	*19.80	*18.27	.....	.....	32.63	30.96
41474	Trucker's Special	Princess Anne (S.C.A.A.)	7.03	7.00	7.60	5.00	.42	.....	7.23	6.00	68.97	59.00
41484	Trucker's Special	Marion (S. C. A. A)	7.03	7.00	5 22	5.00	1.02	.....	7.48	6.00	62.44	59.00
41483	Trucker's Special	Princess Anne [S.C.C.A.]	6.26	7.00	5.44	5.00	1.00	1.00	7.25	6.00	58.90	59.40
26908	Trucker's Special	" " "	7.02	7.00	5.28	5.00	1.45	.....	7.25	6.00	62.50	59.00
41473	Trucker's Universal	Princess Anne (S.C.A.A.)	4.61	5.00	6.10	5.00	.52	.....	9.03	8.00	55.11	52.00
41482	Trucker's Universal	Marion (S. C. A. A.)	5.09	5.00	5.28	5.00	1.02	.....	8.58	8.00	54.57	52.00

41483	Trucker's Special	Princess Anne [S.C.C.A.]	6.26	7.00	5.44	5.00	1.00	1.00	7.25	6.00	58.90	59.40
26908	Trucker's Special	" " "	7.02	7.00	5.28	5.00	1.45	.....	7.25	6.00	62.50	59.00
41473	Trucker's Universal	Princess Anne (S.C.A.A.)	4.61	5.00	6.10	5.00	.52	.....	9.03	8.00	55.11	52.00
41482	Trucker's Universal	Marion (S. C. A. A.)	5.09	5.00	5.28	5.00	1.02	.....	8.58	8.00	54.57	52.00
41481	Trucker's Universal	Princess Anne (S.C.A.A.)	4.66	5.00	5.28	5.00	.95	.....	8.45	8.00	52.20	52.00
26907	Trucker's Universal	" " "	5.02	5.00	5.24	5.00	1.37	.....	8.28	8.00	53.79	52.00
41475	Trucker's Universal Formula 5-8-5	Baltimore	5.05	5.00	5.20	5.00	.70	.....	8.50	8.00	53.88	52.00
41476	Trucker's Universal Formula 7-6-5	Baltimore	6.21	7.00	5.88	5.00	.65	.....	7.10	6.00	59.60	59.00
	G. Ober & Sons Co., Balto, Md.											
41794	Acid Phosphate H. G.	Baltimore	.....	.....	.....	.....	.30	.....	16.60	16.00	24.96	24.00
41784	Acco. Potash Potato Guano	Baltimore	4.91	5.00	5.12	5.00	.37	.....	8.18	7.00	52.33	50.50
41995	Avondale Amm'd. Dissolved Bone	Baltimore	2.88	2.00	1.52	1.00	1.35	.....	9.55	8.00	33.83	25.00
41478	Bone Mixture	Denton (E. W.)	1.42	1.50	.....	.....	5.82	.....	16.53	13.00	34.23	27.00
41772	Edelen's Spec. Tobacco Bed Fert.	Baltimore	10.03	10.00	.....	.....	.22	.....	6.08	4.00	59.36	56.00
41949	Electro Compound	Secretary	1.19	1.00	.....	.....	.65	.....	12.75	10.00	25.34	20.00
41868	Farmers Mixture	Baltimore	1.11	1.00	2.48	2.00	.67	.....	9.03	9.00	26.81	24.50
26973	Farmers Special	Baltimore	2.17	2.00	2.20	2.00	.42	.....	9.78	9.00	32.29	29.50
41782	Farmers Standard Fertilizer	Baltimore	2.30	2.00	2.12	2.00	.65	.....	9.55	9.00	32.45	29.50
41950	German Kainit	Secretary	.....	.....	13.56	12.00	.....	.....	.....	.....	.....	.....
41869	Golden Seal Tobacco Guano	Baltimore	2.80	3.00	1.24	1.00	.77	.....	8.08	8.00	30.15	30.00
41996	Royal Fish & Potato Compound	Baltimore	2.18	2.00	1.68	1.00	.82	.....	9.88	9.00	31.09	26 50
26974	Sea Bird Guano	Baltimore	2.05	2.00	4.20	4.00	.60	.....	10.02	10.00	38.12	37.00
41776	Soluble Amm'd Super Phos. of Lime	Baltimore	2.10	2.00	2.04	2.00	.65	.....	9.25	8.00	30.76	28.00
41815	Special Plant Food Fertilizer	Baltimore	2.02	2.00	5.60	5.00	.63	.....	9.22	9.00	40.98	38.50
41773	Special Tobacco Bed 10% Fert.	Baltimore	10.10	10.00	.....	.....	.25	.....	5.65	4.00	59.08	56.00
41788	Stand. 7% Southern Vegetable Comp	Baltimore	7.06	7.00	6.04	5.00	.52	.....	7.13	6.00	64.33	59.00
41803	Swan E Fish Guano	Baltimore	2.08	2.00	2.84	3.00	1.37	.....	9.33	9.00	33.32	32.50
41930	10% Super Phosphate & Potash	Baltimore	.....	.....	2.28	2.00	.62	.....	11.58	10.00	24.33	21.00
	Oyler & Splanger, Gettysburg, Pa.											
41910	16%	Emmitsburg	.....	.....	.....	.....	.55	.....	16.95	16.00	25.54	24.00
41911	Crop Grower	Emmitsburg	1.55	1.00	1.32	3.00	1.27	.....	10.58	9.00	28.09	27.50
41912	Super Phosphate (Low Grade)	Emmitsburg	1.13	1.00	.....	.....	.85	.....	10.40	9.00	21.59	18.50
	Pacific Manure & Fertz. Co., San Francisco, Cal.											
41807	Pulverized Sheep Manure (L. Gr.)	Baltimore	1.89	2.73	3.28	3.00	.60	.....	.65	.75	20.51	23.78
	Patapsco Guano Co., Balto., Md.											
41808	Baltimore Soluble Phosphate	Baltimore	.....	.....	2.86	3.00	1.18	.....	12.42	12.00	27.45	27.00
41816	Complete Manure	Baltimore	3.02	3.00	4.12	4.00	1.02	.....	8.63	8.00	40.82	39.00
41828	Coon Brand Guano	Baltimore	1.09	1.00	2.84	2.00	.80	.....	9.45	9.00	28.47	24.50
41938	Possum Brand Guano	Grantsville	1.23	1.00	1.08	1.00	.87	.....	9.33	9.00	23.74	21.50

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Peerless Fertz. Co., Chestertown, Md.											
41897	American Standard	Chestertown	3.38	4.00	5.02	5.00	.80	.....	7.80	6.00	$43.98	$44.00
26980	American Standard Fertilizer	Pocomoke City	2.66	4.00	3.76	5.00	.40	.....	7.74	6.00	36.35	44.00
41898	Fish Mixture	Chestertown	1.55	2.00	1.10	1.00	.57	.....	10.68	8.00	27.30	25.00
41899	Fine Ground Bone	Chestertown	3 58	3.00	.....	.....	*25.20	*25.00	.....	.....	33.02	30.00
41900	Fords Ideal (Low Grade)	Chestertown	.87	.50	2.04	3.00	1.23	.....	9.57	8.00	25.32	23.50
41901	Our Peerless Fertilizer	Chestertown	2.01	2.00	3.04	3.00	1.15	.....	9.30	8.00	33.58	31.00
41902	Sweet Potato Manure	Chestertown	1.18	2.00	5.02	6.00	.50	.....	10.05	8.00	36.24	40.00
	Piedmont-Mt. Airy Guano Co., Balto., Md.											
41883	Levering's Standard	Mt. Airy	2.12	2.00	3.56	3.00	.75	.....	9.05	8.00	35.16	31.00
41774	Pdmt. Acid Phosphate 16%	Sparks	.....	.....	.....	.....	1.07	.....	17.78	16.00	26.88	24.00
26928	Pdmt. Acid Phosphate 16%	Pylesville	.....	.....	.....	.....	.55	.....	16.65	16.00	25.09	24.00
26921	Pdmt. Acid Phosphate 16%	Cambridge (J.E.P.)	.....	.....	.....	.....	.77	.....	18.23	16.00	27.50	24.00
41497	Pdmt. Ammoniated Phosphate	Bel Air	1.19	1.00	1.40	1.00	.80	1.00	8.70	8.00	23.52	20.40
41862	Pdmt. Ammoniated Fertilizer	Baltimore	1.08	1.00	2.92	3.00	.80	.....	10.40	9.00	30.08	27.50
41817	Pdmt. Blue Ribbon Fertilizer	Baltimore	2.25	3.00	.....	.....	.80	.....	8.30	10.00	24.02	30.00
41885	Pdmt. Economy (Low Grade)	Mt. Airy	.63	.25	.....	.....	.60	.....	10.15	10.00	18.62	16.25
41818	Pdmt. Early Trucker	Baltimore	5.07	5.00	5.04	5.00	.72	.....	6.48	6.00	50.48	49.00
41841	Pdmt. Farmers Favorite Fert	Baltimore	1.02	1.00	4.16	4.00	.37	.....	9.48	8.00	31.95	29.00
41498	Pdmt. Fish Base Special	Bel Air	1.66	2.00	2.68	2.00	.82	1.00	8.83	8.00	29.92	28.40
26916	Pdmt. Fish Base Special	Van Bibber	2.05	2.00	2.14	2.00	1.07	1.00	9.63	8.00	31.55	28.40
6918	Pdmt. Fish Tankage	Abingdon	9.70	10.00	.....	.....	*9.04	*6.80	.....	.....	53.92	54.08
6910	Pdmt. Ground Fish	Aberdeen (N.A.McV)	8.40	10.00	.....	.....	*9.80	*6.80	.....	.....	47.88	54.08

6910	Pdmt. Ground Fish	Aberdeen (N.A.McV)	8.40	10.00	.....	.....	*9.80	*6.80	.....	.....	47.88	54.08
1820	Pdmt. 5-8-5 Fertilizer	Baltimore	4.37	5.00	4.40	5.00	.90	.....	9.90	8.00	50.26	52.00
1495	Pdmt. General Crop	Bel Air	1.08	1.00	4.02	4.00	.72	1.00	8.78	8.00	30.82	29.40
26913	Pdmt. General Crop Grower	Pylesville	1 16	1.00	4.04	4.00	.75	1.00	9.20	8.00	32.02	29.40
41795	Pdmt. Gold Rod 7-6-5	Baltimore	6.23	7.00	5.20	5.00	.37	.....	6.63	6.00	56.85	59.00
41496	Pdmt. Grange Spec. Mixture	Forest Hill	2.03	2.00	5.01	5.00	.70	1.00	8.65	8.00	38.44	37.40
26912	Pdmt. Grange Spec. Mixture	Pylesville	2.04	2.00	4.72	5.00	1.02	1.00	9.68	8.00	39.29	37.40
41997	Pdmt. Harvest Queen	Baltimore	1 43	1.00	2.08	2.00	.92	.....	8.83	8.00	27.01	23.00
41822	Pdmt. H. G. Amm'd Bone & Potash	Baltimore	2.71	3.00	3.04	3.00	.95	.....	9.45	8.00	37.23	36.00
26919	Pdmt Kainit	Cambridge (J. E. P.)	.....	.....	14.04	13.75	.....	.....	.....	.....	.....	.....
26922	Pdmt. Kainit	Cambridge (J. E. P.)	.....	.....	12.16	13.75	.....	.....	.....	.....	.....	.....
41870	Piedmont. Mixture	Baltimore	2.01	2.00	2.08	2 00	1.30	.....	10.15	10.00	32.04	31.00
41884	Pdmt. Peerless Phosphate	Mt. Airy	1.13	1.00	1.72	1.00	.62	2.00	9.80	8.00	25.76	20.80
41871	Pdmt. Perfection Guano	Baltimore	1.93	2.00	4.36	5.00	.80	.....	9 20	8 00	36.85	37.00
41933	Piedmont. Plow Brand	Baltimore	2.03	2.00	2.80	2.00	1.10	.....	9.25	8.00	32.87	28.00
26911	Pdmt. Pomona Queen	Pylesville	2.06	2.00	4.24	4.00	1.10	1.00	10.80	10.00	39.66	37.40
41998	Piedmont Standard	Baltimore	2.05	2.00	3.60	3.00	1.05	.....	8.75	8.00	34.60	31.00
41886	Pdmt. Stand. & Dis. Bone Phos.	Mt. Airy	1.11	1.00	1.20	1.00	.42	2.00	10.68	10.00	25.34	23.80
26917	Pdmt. Tankage (Slaughterhouse).	Abingdon	8.60	8.00	.....	.....	*11.03	*9.10	.....	.....	49.62	45.46
26920	Piedmont Tankage	Cambridge (J.E.P.)	8.40	8.00	.....	.....	*13.85	.....	.....	.....	50.31	40.00
41789	Pdmt. 10% Peruvian Guano	Baltimore	9.58	10.00	2.48	2.00	.75	.....	7.75	5.00	67.27	63.50
	Pollock Fertilizer Co., Balto., Md.											
41864	Bulleye Guano	Baltimore	2.15	2.00	2.02	2.00	1 20	.....	8.10	.00	29.44	28.00
41865	Corn & Oats Special (L. Gr.)	Baltimore	1.16	1.00	.88	1.00	.87	.....	7.68	7.00	20.31	21.50
41863	High Grade Superphosphate	Baltimore	.....	.....	.....	.....	.60	.....	16.50	16.00	24.87	24.00
41790	Special Potato & Tobacco	Baltimore	2.12	2.00	4.40	4.00	.40	.....	9.10	8.00	37.61	34.00
41866	Special Wheat & Corn	Baltimore	1.26	1.00	2.12	2.00	.75	.....	8 60	8.00	25.86	23.00
	Ramsburg Fertilizer Co., Frederick, Md.											
41984	Ammoniated Bone Phosphate	Frederick	1.13	1.00	2.04	2.00	2.02	.....	11.03	9.00	29.13	24.50
41914	Corn & Potato Fertilizer	Monrovia	.87	1.00	2.02	2.00	.65	.....	12.50	8.00	29.42	23.00
41915	Excelsior Plant Food	Monrovia	1.66	2.00	2.32	2.00	1.20	.....	11.90	8.00	33 59	28.00
26983	Old Virginia Compound	Mt. Airy	1.08	1.00	3.12	4.00	1.72	.....	10.53	8.00	31.25	29.00
41923	Queen (Low Grade)	Mt. Airy	.70	.50	1.44	1.00	1.45	.....	10.35	8.00	23.93	17.50
41917	Rock, Potash & Plaster L G	Monrovia	.....	.....	2.04	2 00	.13	.....	4.93	5.50	13 53	14.25
41924	Super Phosphate	Mt. Airy	.....	.....	.....	.....	.35	.....	17.65	16.00	26.55	24.00
	Rasin-Monumental Co., Balto., Md.											
41849	Nitrate of Soda	Baltimore	16.90	16.00	.....	.....	.....	.....	.....	.....	.....	.....
26981	Royal Fish Bone & Potash	Baltimore	2.08	2.00	1.84	3.00	1.40	.....	9.60	8.00	30.88	31.00

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Reindollar Co., Taneytown, Md.											
41925	Acid Phosphate 16%	Taneytown	.....	.....	.....	.....	.65	.....	17.35	16.00	$26.16	$24.00
42926	Ammoniated Phosphate	Taneytown	1.91	2.00	.....	.....	1.15	.....	14.10	12.00	31.16	28.00
41927	Rock & Potash	Taneytown	.....	.....	1.56	2.00	.43	.....	13.77	12.00	25.43	24.00
	W. E. Robinson & Co., Bel Air, Md.											
26972	Vegetable & Grain Grower	Watervale	2.15	2.00	2.52	2.00	.20	.....	8.02	8.00	30.42	28.00
	F. S. Royster Guano Co., Balto., Md.											
41769	Acid Phosphate 14%	Baltimore	.....	.....	.....	.....	.60	.....	14.04	14.00	21.18	21.00
41779	Acid Phosphate 16%	Baltimore	.....	.....	.....	.....	.60	.....	16.60	16.00	25.02	24.00
40796	Arrow 7% Potato Guano	Baltimore	7.03	7.00	5.04	5.00	.27	.....	6.68	6.00	60.40	59.00
41830	Bully Guano	Baltimore	2.05	2.00	4.60	5.00	.92	.....	8.98	8.00	37.89	37.00
41797	Columbia Potato Guano	Baltimore	5.12	5.00	5.28	5.00	.50	.....	7.75	7.00	53.27	50.50
41831	Cuckoo Guano	Baltimore	1.02	1.00	1.08	1.00	.80	.....	8.40	8.00	21.26	20.00
41823	Dreadnought Guano	Baltimore	2.01	2.00	2.04	2.00	.77	.....	8.63	8.00	29.43	28.00
41824	Economy Guano	Baltimore	1.14	1.00	2.90	2.00	.72	.....	8.93	8.00	28.09	23.00
26978	Fish & Potash	Berwyn	2.37	2.00	1.20	1.00	.35	.....	8.20	8.00	27.89	25.00
41832	Fish Flesh & Fowl	Baltimore	2.03	2.00	3.56	3.00	1.12	.....	9.28	8.00	35.20	31.00
41798	5% Trucker	Baltimore	5.05	5.00	.....	.....	.50	.....	8.65	8.00	38.43	37.00
41887	Honor Brand	Rockville	2.13	2.00	.....	.....	.82	.....	11.53	10.00	28.28	25.00
26979	Honor Brand	Berwyn	2.27	2.00	.....	.....	2.25	.....	9.45	10.00	26.43	25.00
41799	Ripper Potato Guano	Baltimore	5.02	5.00	4.72	5.00	.45	.....	7 80	7.00	51.14	50.50
41833	Royal Blue Guano	Baltimore	1.13	1.00	.....	.....	.80	.....	10.55	10.00	21.80	20.00
41872	10-2 Phosphate & Potash	Baltimore	.....	.....	2.04	2.00	.92	.....	10 88	10.00	22.62	21.00

41873	Wonder Worker	Baltimore	1.21	1.00	2.44	3.00	.50	.....	9.54	8.00	27.88	26.00
	Scott Fertilizer Co., Elkton, Md.											
41951	Genuine German Kainit	Elkton	.....	.....	10.88	12.00	.....	.....	.....	.....	.....	.....
41952	Ground Raw Bone	Elkton	4.85	4.50	.....	.....	*20.80	*21.90	.....	.....	36.73	35.64
41953	Pennsylvania Potato Grower	Rising Sun	1.21	1.00	2.02	2.00	.95	.....	8.75	8.00	25.62	23.00
41954	Potato Grower	Elkton	2.25	2.00	4.20	4.00	1.05	.....	10.85	10.00	39.80	37.00
41955	Soluble Phos. & Potash 10 & 5	Elkton	.....	.....	5.04	5.00	1.07	.....	10.78	10.00	31.50	30.00
41956	Soluble Phos. & Potash 12 & 2	Elkton	.....	.....	2.04	2.00	.45	.....	13.10	12.60	25.86	24.00
41934	Soluble Phos. & Potash	Baltimore	.....	.....	2.32	2.00	.52	.....	10.58	10.00	22.93	21.00
41957	Standard	Elkton	1.08	1.00	3.04	3.00	.62	.....	11.53	9.00	32.07	27.50
41958	Sure Growth Compound	Elkton	4.03	4.00	4.04	4.00	1.20	.....	8.75	8.00	45.88	44.00
41874	Sure Growth Super Phos	Baltimore	2.03	2.00	2.04	2.00	.92	.....	8.43	8.00	29.29	28.00
41959	Tip Top Soluble Phos. 16%	Elkton	.....	.....	.....	.....	.45	.....	16.90	16.00	25.44	24.00
41960	Victory Brand	Elkton	2.08	2.00	3.16	3.00	1.22	.....	8.23	8.00	32.72	31.00
41961	Wheat & Grass (Low Grade)	Elkton	.70	.50	2.08	2.00	.85	.....	8.45	8.00	22.76	20.00
	Standard Guano Co., Balto., Md.											
41809	Extra H. G. Acid Phosphate	Baltimore	.....	.....	.....	.....	.40	.50	16.30	16.00	24.53	24.10
41486	Patapsco Neck Truckers Favorite	Sparrows Point	4.51	4.50	6.48	6.25	1.22	.....	10.93	8.95	58.88	54.68
	Geo. W. Standiford, Hydes, Md.											
26923	Standiford's Mixture	Fallston	2.08	.....	.....	.....	3.95	.....	12.05	.....	30.06	.....
	W. H. Streett & Co., Fallston, Md.											
41989	Acid Phosphate	Fallston	.....	.....	.....	.....	.47	.50	15.63	16.00	23.54	24.10
41990	Ammoniated Disssolved Bone	Fallston	1.89	1.50	1.36	1.00	1.50	.50	9.70	9.00	28.68	24.00
	Superior Guano Co., Baltimore, Md.											
41935	Acid Phosphate (Low Grade)	Baltimore	.....	.....	.....	.....	.52	.....	12.28	12.00	18.52	18.00
41903	Half & Half (Low Grade)	Chestertown	.....	.....	1.16	1.25	.40	.....	10.35	8.00	19.09	15.75
	Swift & Co., Baltimore, Md.											
41962	Acid Phosphate Garden City	Easton	.....	.....	.....	.....	1.30	.....	15.75	14.00	23 89	21.00
41875	Acid Pnosphate	Baltimore	.....	.....	.....	.....	1.95	.....	16.60	16.00	25.29	24.00
41850	Canning Crop Fertilizer 4-8-4	Baltimore	4.02	4.00	3.80	4.00	.72	.....	9.63	8.00	46.24	44.00
41876	Champion Wheat & Corn Grower	Baltimore	2.08	2.00	3.04	2.00	.70	.....	11.60	12.00	37.20	34.00
41810	Early Potato Grower	Baltimore	4.57	5.00	5.48	5.00	.42	.....	8.48	8.00	52.18	52.00
26926	Early Potato Grower	Newark	5.05	5.00	5.56	5.00	.25	.....	8.30	8.00	54.48	52.00
26975	Golden Grain Grower	Baltimore	1.86	2.00	5.05	5.00	.67	.....	8.02	8.00	36.75	37.00
41835	Monmouth Co. Potato Manure	Baltimore	4.02	4.00	5.04	5.00	.25	.....	9.55	8.00	49.65	47.00
41999	Onion, Pot. & Tobacco Grower	Baltimore	2.02	2.00	7.92	7.00	1.17	.....	7.73	8.00	45.93	43.00

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
41785	Plant Bed Fertilizer	Baltimore	5.12	5.00	2.68	2.00	.17	.....	8.28	8.00	$46.13	$43.00
41851	Raw Bone Meal Fertilizer	Baltimore	4.66	4.50	.....	.....	*24.30	*23.00	.....	.....	37.88	36.30
41836	Red Steer 2-8-2	Baltimore	2.03	2.00	2.08	2.00	.20	.....	8.55	8.00	29.30	28.00
41852	Southern Planters Favorite	Baltimore	3.16	3.00	3.06	3.00	.67	.....	8.68	8.00	38.33	36.00
41825	Special A. Fertilizer 3-8-0	Baltimore	3.12	3.00	.....	.....	.17	.....	8.48	8.00	28.39	27.00
41826	Special Formula 5-8-3	Baltimore	5.05	5.00	3.04	3.00	.13	.....	9.02	8.00	47.95	46.00
41905	Special Potato Fertilizer	Baltimore	1.93	2.00	10.72	10.00	.85	.....	8.75	8.00	55.28	52.00
41775	Special Top Dresser	Baltimore	10.14	10.00	.....	.....	.17	.....	5.73	5.00	59.37	57.50
41853	Special Wheat & Corn Grower	Baltimore	2.06	2.00	5.52	4.00	.77	.....	11.33	10.00	44.17	37.00
41778	Top Dresser Formula No. 1	Baltimore	6.26	7.00	.....	.....	.20	.....	9.80	8.00	46.08	47.00
41827	Wheat Grower Phos. & Potash	Baltimere	.....	.....	2.10	2.00	1.37	.....	12.78	12.00	25.74	24.00
	Tanner Hide & Tallow Co., Hagerstown, Md.											
41939	Bone Phosphate	Hagerstown	2.12	2.00	1.80	2.00	3.22	.....	10.53	8.00	33.09	28 00
41940	Tankage	Hagerstown	6.55	5.00	.....	.....	.....	.....	.....	.....	32.75	25.00
	H. S. Taveau & Co., Balto., Md.											
41804	Strawberry Top Dresser	Baltimore	3.67	4.00	1.24	1.00	.90	.....	6.10	5.00	31.58	30.50
	Thomas & Co., Frederick, Md.											
41928	Acid Phosphate 16%	Union Bridge	.....	.....	.....	.....	.57	.....	17.13	16.00	25.81	24.00
41985	Blood & Bone	Frederick	2.17	2.00	1.52	2 00	.87	.....	8.53	8.00	28.56	28.00
41986	Plant Food	Frederick	1.11	1.00	3.04	3.00	.65	.....	10.25	9.00	30.31	27.50
41929	Sure Crop	Union Bridge	1.11	1.00	2.12	2.00	.45	.....	8.80	8.00	25.29	23.00

	I. P. Thomas & Son, Phila., Pa. ..											
41842	Farmer's Choice 2-12-2.....	Annapolis.....	2.01	2.00	2.12	2.00	.82	.....	13.03	12.03	36.29	34.00
41843	Tip Top Super Phos. 3-8-4.....	Annapoiis.....	3.16	3.00	4.36	4.00	.85	.....	8.65	8.00	42.20	39.00
41844	Wheat & Corn Guano.....	Annapolis.....	2.01	2.00	.....	.....	.57	.....	12.63	10.00	29.23	25.00
	W. B. Tilghman Co., Salisbury, Md.											
41963	Acid Phosphate H. G.....	Fruitland.....	.....	.....	.....	.....	.95	.....	16.60	16.00	25.09	24.00
41964	Fish, Bone & Potash Mixture...	Fruitland.....	1.18	1.00	2.40	2.00	.35	.....	11.75	10.00	30.87	26.00
26927	H. G. Early Truck Guano	Showell.....	5.01	5.00	5.20	5.00	.47	.....	9.18	8.00	54.61	52.00
41966	H. G. Potash Mixture.....	Fruitland.....	2.01	2.00	8.40	10.00	.52	.....	9.18	8.00	49.23	52.00
41967	H. G. Potato Fertilizer.....	Fruitland.....	2.88	3.00	7.08	6.00	.67	.....	7.33	6.00	46.91	42.00
41968	Irish P. Guano.....	Salisbury.....	7.03	7.00	5.36	5.00	.95	.....	7.80	6.00	63.31	59.00
41969	Mixture B.....	Fruitland.....	4.02	4.00	4.20	4.00	.60	.....	9.95	8.00	47.87	44.00
41970	Spec. Fish for Sweet Potatoes..	Fruitland.....	2.85	2.00	5.36	5.00	1.00	.....	7.90	7.00	42 58	35.50
41971	Special 3-6-7	Salisbury.....	2.95	3.00	7.20	7.00	.55	.....	7.75	6.00	48.20	48.00
41972	Standard Fish Mixture.....	Fruitland.....	2.13	2.00	2.20	2.00	.55	.....	11.65	10.00	34.95	31.00
	Turner & Son, Betterton, Md. (A.	**A. C. Co.,)**										
41837	Corn & Tomato Guano.....	Baltimore.....	1.06	1.00	2.04	2.00	.52	.....	10.08	8.00	26.75	23.00
	United States Guano Co., Balto.,	**Md.**										
41838	Acid Phosphate 16%	Baltimore.....	.....	.....	.....	.....	1.27	.50	15.83	16.00	24.00	24.10
41801	Accomac Special Truck Grower	Baltimore.....	5.92	6.00	5.28	5.00	.87	.....	9.73	8.00	60.39	57.00
26971	Grain Grower	Baltimore.....	2.32	2.00	2.88	2.00	2 30	.....	8.45	8 00	33.84	28.00
41919	Keystone Brand	Walkersville.....	1.13	1.00	2.44	2.00	.35	.....	7.75	8.00	24.74	23.00
26985	Patapsco Neck Truckers Favorite.	Baltimore.....	4.42	4.50	6.96	6.25	1.22	.....	9.58	8.95	57.84	54.68
26986	Patapsco Neck Spec. Truckers Friend	Baltimore.....	5.80	6.00	5.94	5.00	1.05	.....	10.05	8.50	62.32	57.75
41487	Potato Guano.....	Sparrows Point....	6.92	7.00	5.08	5.00	1.47	.....	7.98	6.00	62.40	59.00
26987	Slaughter House Tankage.....	Baltimore.....	6.04	6.00	.....	.....	16.05	14.61	.....	.....	39.83	38.77
41811	Standard Bone Meal.....	Baltimore.....	4.28	4.50	.....	.....	22.84	22.83	.....	.....	35.10	36.20
41920	Standard Champion.....	Walkersville.....	1.45	1.00	1.28	1.00	2.75	.....	7.70	8.00	23.74	20.00
41921	Star Wheat Grower..... ...	Walkersville.....	1.69	2.00	2.04	2.00	.43	.....	7.67	8.00	26.25	28.00
41499	Stand. U. S. Old Reliable.....	White Hall.....	1.48	1.25	3.04	3.00	.72	.50	10.13	9.00	32.01	28.95
41937	Tobacco King.....	Baltimore.....	3.62		4.12	3.00	1.57	.....	8.93	8.00	44.49	36.00
	Valliant Fertilizer Co., Laurel, Del.			2.00								
41974	Choice.....	Sharptown.....	2.15	1.00	8.16	8.00	1.85	.....	8.80	8.00	49.17	46.00
41975	Famous.....	Willards.....	1.09		4.40	4.00	1 32	.....	10.08	10.00	34.30	32.00
	E. S. Valliant & Son, Church Hill,	**Md.**		1.00								
41904	General Crop Mixture.....	Centreville.....	1.45		1.84	1.00	2.20	.....	9.60	8.00	28.05	20.00

*Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling (and Senders initials when not Sampled by the College Agent.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	E. S. Valliant & Son, Church Hill, Md.											
41800	Truck Guano	Baltimore	2.12	2.00	3.24	3.00	1.00	.....	8.15	8.00	$32.95	$31.00
	Virginia-Carolina Chem. Co., Baltimore, Md.											
41786	Acid Phosphate 16%	Baltimore	.....	.....	.....	.....	1.12	.....	17.28	16.00	26.14	24.00
26976	Best Truck & Veg. Formula	Beltsville (L.D.L.)	4.13	4.00	5.80	6.00	1.57	.....	10.88	10.00	55.00	53.00
41936	Fish, Bone and Potash	Baltimore	2.10	2.00	3.04	3.00	1.97	.....	9.48	8.00	34.63	31.00
26977	Fish, Bone & Potash	Beltsville (P.A.G.)	2.63	2.00	2.56	3.00	2.30	1.00	9.10	8.00	35.40	31.40
26970	1-9-3	Baltimore	1.81	1.00	2.36	3.00	1.52	.....	9.73	9.00	31.34	27.50
41854	National Ammoniated Guano	Baltimore	1.02	1.00	4.04	4.00	1.37	1.00	9.13	8.00	31.47	29.40
41780	Plant Bed Special	Baltimore	10.02	10.00	.....	.....	.50	1.00	5.80	4.00	59.00	56.40
41855	Stand. Corn & Grain Grower(LG)	Baltimore	.82	.50	2.04	2.00	1.87	1.00	7.73	8.00	22.57	20.90
41856	Standard Grain Grower	Baltimore	1.02	1.00	2.12	2.00	1.92	1.00	8.33	8.00	24.73	23.40
	Westminster Fertilizer Co., Westminster, Md.											
41888	Governor	Westminster	1.52	1.50	1.68	2.00	.77	.....	10.78	10.00	29.12	28.50
41889	Leader	Westminster	1.06	1.00	1.52	1.00	1.12	.....	10.38	9.00	25.88	21.50
41890	Super A	Westminster	1.09	1.00	1.40	1.00	.85	.....	9.50	8.00	24.24	20.00
	Harry W. Whistler, Bel Air, Md.											
41991	Dissolved Bone	Bel Air	2.47	2.00	.....	.....	1.67	.....	10.03	10.00	28.07	25.00
41992	Fish, Bone & Potash	Bel Air	1.33	1.00	1.16	1.00	.95	.....	8.60	8.00	23.41	20.00
41993	General Crop Grower	Bel Air	1.48	1.00	2.80	3.00	.97	.....	9.53	8.00	30.49	26.00
	F. M. Wilson & Co., Pocomoke City, Md.											
41976	Favorite Truck	Pocomoke City	3.70	5.00	5.64	5.00	1.92	.....	10.23	8.00	51.54	52.00
41977	Peninsula Amm'd Super Phos	Pocomoke City	1.59	2.00	1.28	1.00	1.27	.....	14.48	12.00	34.02	31.00
	Robert A. Wooldridge Co., Balto.	Md. (A. A. C. Co.)										

41977	Favorite Truck	Pocomoke City	3.70	5.00	5.64	5.00	1.92		10.23	8.00	51.54	52.00		
	Peninsula Amm'd Super Phos.	Pocomoke City	1.59	2.00	1.28	1.00	1.27		14.48	12.00	34.02	31.00		
	Robert A. Wooldridge Co., Balto.,	**Md. (A. A. C. Co.)**												
41906	Champion Stag Phosphate	Baltimore	1.57	1.00	2.04	2.00	.70		9.75	9.00	28.88	24.50		
41265	Grain & Grass Producer	Baltimore			3.74	4.00	.62		12.08	10.00	29.46	27.00		
41878	Liberty Bell Potash Mixture	Baltimore			3.04	3.00	.65		12.50	12.00	28.00	27.00		
41845	Old Fidelity	Baltimore	2.13	2.00			.75		11.20	10.00	27.75	25.00		
41814	No. 2 Phosphate & Potash	Baltimore			5.04	5.00	.85		8.90	8.00	28.64	27.00		
26982	Sovereign Trucker	Baltimore	4.88	5.00	5.28	5.00	.82		7.58	7.00	51.94	50.50		
41846	Spec. Potato & Tobacco Fert.	Baltimore	2.02	2.00	2.12	2.00	.85		11.05	10.00	33.38	31.00		
41907	Triumph Brand Phos. Rev	Baltimore	2.03	2.00	3.05	3.00	.85		8.90	8.00	32.99	31.00		
	Worcester Fertz. Co., Snow Hill.	**Md.**												
41978	Acid Phosphate 16%	Snow Hill					1.20		15.30	16.00	23.19	24.00		
41979	Corn Producer	Snow Hill	1.66	1.00	1.76	2.00	1.55		9.25	8.00	28.08	23.00		
41980	Fish, Bone & Potash	Snow Hill	2.63	2.00	2.84	2.00	1.45		8.05	8.00	34.33	28.00		
41981	Peerless (Low Grade)	Snow Hill	1 09	.50	2.80	2.00	1.28		7.02	8.00	24.89	20 50		
41982	Special Potash Mixture	Snow Hill	1.84	1.00	4.80	4.00	1.50		7.02	8.00	34.73	29.00		
41983	Sweet Potato Special	Snow Hill	3.05	3.00	4.72	4.00	1.47		8.43	8.00	42.65	39.00		
41965	12 & 3	Snow Hill			3.04	3.00	1.25		12 55	12.00	28.20	27.00		

*Total Phosphoric Acid.

TABLE II.—Registration of Fertilizers for 1921, from March 1 to July 31. For prior Registrations, see February Bulletin. For Key to Composition, see page 3.

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
Alexandria Fert & Chem. Co., Alexandria Va.			
Basic Lime Phos., (L. Gr.)	0	13	0
Dissolved Acid Phos.	0	14	0
H. G. 16% Acid Phosphate,	0	16	0
Reliable Fish Mixture,	1 TANFC	10 RFT	0
Potomac Fertilizer,	1 "	9 "	1 MKD
Ammoniated Dissolved Bone,	2 "	8 "	2 "
Fish, Bone & Potash,	2 "	8 "	3 "
Tomahawk Tobacco Guano,	3 "	8 "	4 "
Plant Bed Guano,	5 "	8 "	0
Standard Amm'd Super Phos.,	2 "	10 "	0
Superior Crop Grower,	1 "	9 "	3 "
Special Potato Guano,	5 "	7 "	5 "
Alphano Humus Co., New York, N. Y.			
Prepared Alphano Humus, (L. G.)	1½	½	½
Amer. Agr'l. Chem Co., Balto., Md.			
Turner & Son Corn & Tomato Guano,	1 TFb	8 RB	2 K
American Fertilizing Co., Balto., Md.			
6-7-5 Fertilizer,	7 NACTNa	6 R	5 SMKTcJD
7-6-5 Fertilizer,	6 "	7 "	5 "
7-5-5 Fertilizer	5 "	7 "	5 "
Armour Fertilizer Works, Balto., Md.			
Kainit,	0	0	12
Associated Chem. Co., Hagerstown, Md.			
Kainit,	0	0	12
Fish Scrap,	10	6	0
Chas. E. Baechtel, Hagerstown, Md.			
Wheat & Grass Producer,	1 TNAFCt	8 R	3 MKD
Patriot,	1 "	10 "	0
Baltimore Fertilizer Co., Balto., Md.			
Old Honesty, (Low Grade)	½ TNAC	8 RTB	2 MKD
Honest Crop Grower,	1 "	8 "	1 "
Honest Potato Grower,	1 "	9 "	3 "
Honest Wheat & Grass Grower,	1¼ "	10 "	1 "
Honest Trucker	5 "	6 "	5 "
Honest Ammoniated Bone,	2 "	8 "	2 "
Honest Acid Phosphate,	0	16	0
Baltimore Pulverizing Co., Baltimore, Md			
Truckers Choice,	3 NTFt	8 RTF	2 Mn
Royal Compound,	2 NFt	8 RF	1 K
Harvest King,	1 "	10 "	2 KD
Spec. Spring & Fall Mix. (L. Gr.)	0	8 R	1 K
Penniman's Excelsior,	0	12 "	2 KD
Baugh & Sons Co., Baltimore, Md.			
Bone Meal,	4	18.30+	
Pure Bone & Muriate Potash Mix.	2½ B	20.+	5 M
Balanced Plant Food,	2 BATD	12 RBT	2 MKc
Wheat Fertilizer,	2 "	8 "	2 "
Valley Special,	1¼ "	10 "	2 "
Durable Plant Food,	1 "	8 "	3 "
Economical Crop Producer,	1 "	8 "	2 "
Grain & Grass Grower,	2 "	10 "	0
Ammoniated Super-Phos,	1¼ "	10 "	0
Beckley Fertilizer Co., Halfway, Md.			
Bone Mixture	1½ ATt	14 R	0
Fish Bone Mixture,	1½ FCt	10 "	0
Crop Grower	1 NCTt	12 "	0
Potash Mixture,	0	10 "	4 MD
Dissolved Phosphate,	0	16	0

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
N. T. Bennett, New Windsor, Md.			
16% Acid Phosphate	0	16	0
Berg Co., Philadelphia, Pa.			
Ground Animal Tankage,	5½	12*	0
Braun Fertilizer Co., Balto., Md.			
General Crop Grower,	4 NT	8 RT	4 D
Truck Grower,	3 "	8 "	3 "
Special,	3 "	10 "	0
Bryant Fertilizer Co., Alexandria, Va.			
Queen Ammoniated Bone,	1 TNA	8 R	1 KMTD
Special Wheat Mixture,	1 "	9 "	2 "
Bone Ammoniated,	2 "	10 "	0
Slaughter House Bone	1¼ "	10 "	0
Formula "E"	2 "	8 "	2 "
Victor Tobacco Fertilizer,	3 "	8 "	3 "
Tobacco Bed Fertilizer	7 "	6 "	1 "
High Grade Potash Mixture	0	10 "	4 "
Bone & Potash Mixture,	0	10 "	2 "
16% Phosphate,	0	16	0
S. C. Dissolved Bone,	0	14	0
Pure Raw Bone,	4½	0	0
Herbert Bryant's Son Alexandria, Va.			
Genuine Fish, Bone & Potash,	2 F	9 RF	2 K
Standard Fish & Bone,	2 "	11 "	0
Standard Empress,	1¼ T	11 RT	0
Beef, Bone & Potash,	1¼ T	9 "	2 "
H. G. Truck & Potato Compound,	3 F	8 RF	5 KM
H. G. Acid Phosphate,	0	16	0
Economy Compound, (L. Gr.)	0	12 R	0
New Method,	1 TC	8 "	4 KM
Belle Haven Ammoniated Bone	2 F	8 "	5 "
Central Chemical Co., Hagerstown, Md.			
Gro-All Top Dresser,	7 NFACT	8 R	0
" " Truckers Pride,	5 "	10 "	0
" " Truckers Delight,	4 "	8 "	5 MD
" " Truck & Potato Special	5 "	8 "	5 "
" " High Grade Potato,	5 "	8 "	7 "
" " Economy Trucker,	5 "	8 "	3 "
" " Potato Special,	4 "	8 "	7 "
" " Top Dresser with Potash,	7 "	8 "	3 "
" " Sweet Special,	2 TNAC	8 "	3 "
" " Excelsior,	2 "	8 "	4 "
" " Trucker's High Grade	4 "	8 "	4 "
" " Canner's Special,	2 "	8 "	5 "
" " Truckers Potash Special	2 "	8 "	3 "
" " Potash Special,	0	12 "	5 MKD
" " Truck Special,	3 ATCNFt	10 "	0
Chesapeake Plant & Animal Food Co., Balto., Md.			
General Crop Grower, 2-8-2	2 AFTt	8 RJ	2 K
2-8-5,	2 "	8 "	5 MK
Acid Phosphate 16%,	0	16	0
Crisfield Fertilizer Co., Crisfield Md.			
Ground Crab Fertilizer,	2½	2 *	0
Dorchester Fertilizer & Lime Co., Cambridge, Md.			
Fish Mixture,	2 FTt	8 R	2 KD
Our No. 2,	2 Ttb	8 RB	2 MD
Old Dorset,	1 "	8 "	4 "
Old Glory,	0	12 R	3 "
Our Special,	1 Tt	8 "	2 KD
Wm. R. Dorsey, Ellicott City, Md.			
Mixture "D"	2 BF	9 RBF	2 KD
Eastern Guano Co., New York, N Y.			
Dissolved Phosphate,	0	16	0
Fish Mixture,	1½ NFC	10 R	0
Potash Special,	0	10 "	2 MD
Eureka Chemical Co., Balto., Md.			
Grain & Grass,	1 T	8 R	2 M
Fish & Potash, (L Gr.)	½ Ft	8 "	2 MK
S. M. Hess & Bro., Inc., Phila, Pa.			
Processed Phospho Lime, (L. Gr.)	0	13	0
Wm. H. & C. R. Hood, Mt. Airy, Md.			
Special Mixture,	1 Tt	10 RT	1 D

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
Hubbard Fertilizer Co., Balto., Md.			
5-8-5 Fertilizer,	5 TAN	8 R	5 MD
7-8-0 "	7 "	8 "	0
1-8-2 Special,	1 "	8 "	2 "
Nitrate of Soda,	1 8N	0	0
Muriate of Potash,	0	0	48
Dry Ground Fish 10%, (Low Grade)	10	0	0
Fish & Potash Mixture, (L. Gr.)	½ TAN	8 R	2 MKD
1-8-4 Fertilizer,	1 T	8 "	4 "
Kainit,	0	0	12.40
M. P. Hubbard Co., Inc., Balto, Md.			
Dissolved Phosphate,	0	16	0
Big Jim Compound, (Low Grade,)	½ SNBFT	8 R	1 MKSD
Good & Cheap Compound,	1 "	8 "	1 "
Excelsior,	1 "	8 "	2 "
Acme,	1 "	8 "	4 "
Celebrated,	2 "	8 "	2 "
Old Economy, (Low Grade)	½ "	8 "	2 "
Soluble Phosphate & Potash,	0	10 "	2 "
Special Potato & Tomato,	2 "	7 "	5 "
Maryland Special,	5 "	7 "	5 "
Koller Fertilizer Co., Seitzland, Pa.			
Spec. Potato Grower,	1 TBNAD	7 R	4 MKD
Ammoniated Phosphate,	1 "	8 "	1 "
H. G. Acid Phosphate,	0	16	0
Maryland Milling & Supply Co., Skyesville, Md.			
14% Acid Phosphate,	0	14	0
High Grade Acid Phosphate	0	16	0
Corn & Oat Mixture,	1 F	8 R	1 K
Fish, Bone & Potash,	1 FB	9 RB	2 D
Potato Compound	1 F	8 "	4 "
Truckers Favorite,	2 "	8 "	5 M
Massey & Kilbourne, Chestertown, Md			
Crop Producer,	1 Tb	9 Rb	3 K
Try Me (Low Grade)	¼ Tb	9 "	2 "
Propagator,	2 TNAb	8 "	2 "
10-5	0	10 R	5 KD
12-3,	0	12 "	3 K
Corn Phosphate,	1 TNb	8 Rb	1 "
Trustworthy,	2 TbNA	8 "	5 D
High Grade Acid Phosphate,	0	16	0
Miller Fertilizer Co, Baltimore, Md.			
No. 1 Potash & Vegetable Grower,	4 ANBDTt	8 RB	4 MK
Standard Phosphate,	3 "	8 "	3 D
Pimlico	2 ANBTt	8 "	10 MD
Farmer's Profit,	2 "	10 "	4 MK
Unexcelled,	2 "	10 "	2 KD
No. 1 Special,	2 "	10 "	0
Potato & Vegetable Grower,	2 "	9 "	3 D
Ammoniated Dissolved Bone,	2 "	8 "	2 KD
Clermont,	1 ANTB	10 "	2 K
Harvest Queen,	1 "	9 "	3 D
Hustler Phosphate,	1 "	8 "	1 K
Club Brand, (Low Grade)	½ ANt	8 R	2 "
H. G. Potato Fertilizer,	7 ANTDt	6 "	5 M
Vegetable Compound,	5 "	8 "	5 "
Alkaline Mixture,	0	12 "	2 K
Clinch Phosphate,	0	10 "	2 "
Acid Phosphate, 16%	0	16	0
Nitrate Agencies Co., New York, N. Y.			
Nitrate of Soda,	18.24	0	0
Acid Phosphate,	0	16	0
Muriate of Potash,	0	0	48.00
2-8-2 General Crop Formula,	2 ANFTD	8 R	2 MS
4-8-4 Potato Formula	4 "	8 "	4 "
2-10-4 All Crop Potash Form	2 "	10 "	4 "
5-8-5 Truckers Universal,	5 "	8 "	5 "
3-8-5 Tobacco Special,	3 "	8 "	5 "
Sulphate of Ammonia,	25	0	0
Sulphate of Potash,	0	0	47
Muriate of Potash,	0	0	48

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
Tankage,	10	0	0
Bone,	3	22.93 *	0
Bone,	4½	22.93 *	0
7-6-5	7 ANFTD	6 R	5 MS
2-8-5	2 "	8 "	5 "
Patuxent Fish & Oil Co., Solomons, Md.			
Truckers Joy,	3 TF	9 R	1 D
Farmers Harvester, (L. Gr.)	2 "	9 "	¼ TF
Patuxent Guano Co., Baltimore, Md.			
Pure Dissolved S. C. Phos.,	0	14	0
High Grade Acid Phos.	0	16	0
Soluble Phos & Potash,	0	10 R	2 MKD
Alsation Potash Mixture,	0	8 "	5 "
Penn Compound, (Low Grade.)	1 TA	8 "	0
Farmers Friend, (L. Gr.)	½ "	8 "	2 "
Ammoniated Compound,	1 "	10 "	0
Crop Producer, (L. Gr.)	1 "	7 "	1 "
Fish Guano,	1 "	8 "	2 "
Beaver Brand Guano,	1 "	9 "	3 "
Tom O'Neill's Golden Harvest,	1 "	9 "	2 "
Grain & Clover Producer,	1 "	8 "	4 "
Guano,	2 TAN	8 "	2 "
Lime Phosphate, (L Gr.)	0	13	0
Piedmont Mt. Airy Guano Co.,Balto., Md			
HCFF Fish Base Special,	2 NST	8 RT	2 KD
" Pomona Queen,	2 FTN	10 "	4 MK
" General Crop Grower,	1 NFT	8 "	4 "
" Grange Special Mixture,	2 "	8 "	5 "
" Ammoniated Phosphate,	1 NTA	8 "	1 "
Levering's 16% Acid Phos.,	0	16	0
16% Acid Phosphate,	0	16	0
Excelsior,	1 NTA	8 "	1 "
Peerless Phosphate,	1 "	8 "	1 "
Standard Dis. Bone Phos.,	1 "	10 "	1 "
Harvest Queen,	1 "	8 "	2 "
Standard,	2 NTAF	8 "	3 "
Plow Brand,	2 "	8 "	2 "
Perfection,	2 "	8 "	5 MD
Farmers Favorite,	1 NT	8 "	4 "
Ammoniated Fertilizer,	1 "	9 "	3 MK
Spl Crop Grower,	1 "	10 "	0
Utility Fertilizer,	2 "	10 "	0
Acidulated Phos., & Potash,	0	10 "	2 MK
Pocomoke Guano Co., Norfolk, Va.			
Seaboard Popular Trucker,	7 NAFT	6 RFT	5 MKD
Arrowhead Truck Guano,	5 "	7 "	5 "
Ramsburg Fertilizer Co., Frederick, Md.			
Excelsior Plant Food,	2 FTC	10 RT	2 D
Old Virginia Compound	1 Tt	8 "	4 "
Amm'd Bone Phosphate,	1 "	10 "	2 "
Williams Wheat & Grass,	1 "	10 "	1 "
Excelsior Half & Half,	1 "	10 "	1 "
Corn & Potato Fertilizer,	1 "	8 "	2 "
Queen (Low Grade)	½ t	10 R	1 "
Super Phosphate,	0	16	0
Rock, Potash & Plaster, (L. Gr.)	0	5½ R	2 "
W. E. Robinson & Co., Bel Air, Md.			
Vegetable & Grain Grower,	2 T	8 R	2 K
F. S. Royster Guano Co., Balto., Md.			
Purity Brand, (L. Gr.)	1 AFT	8 RT	0
Seeding Down Guano,	1 "	9 "	3 M
Wm. H. Street & Co., Fallston, Md.			
Ammoniated Dissolved Bone,	1½ ANBt	9 RB	1 K
H. G. Bone Phosphate,	2 ANTBt	10 "	4 MK
Standard,	1 ANBt	8 "	1 K
Swift & Co., Baltimore, Md.			
Kainit,	0	0	12.40
New Jersey Special,	4 NATD	8 RB	7 MKD
Golden Grain Grower,	2 "	8 "	5 "
Early Truck Special,	5 "	" 8	4 "
Onion, Potato & Cauliflower Gr.	6 "	12 "	3 "
High Grade Special,	3 "	8 "	3 "

FIRM AND BRANDS	PER CENT AND SOURCES OF		
	Ammonia (or Nitrogen)	Phosphoric Acid Available	Potash Soluble
Monmouth Co., Potato Manure,	4 "	8 "	5 "
Farmers Favorite, (Low Grade)	¼ "	10 "	1 "
Ground Fish,	10	0	0
H. S. Taveau & Co., Balto., Md.			
Allerton Guano,	1 NTF	8 RF	2MKD
Pride of Maryland,	1 NAT	10 RT	1 "
Pride of Virginia,	1 FTN	8 RF	1 "
Fish, Bone & Potash Mixture	2 "	8 RFT	3 "
Florida Phosphate,	0	14	0
Thomas & Co., Frederick, Md.			
Blood & Bone,	2 NTAt	8 R	2 KN
Plant Food,	1 t	9 "	3 "
Harvest Queen,	1¼ Tt	10 "	0
Crop Grower,	1 t	8 "	1 KN
Acid Phosphate,	0	16	0
I. P. Thomas & Son Co., Phila, Pa.			
Tip Top Super Phos,	3 NAFT	8 RT	4 MD
16% Acid Phosphate,	0	16	0
General Use Fertilizer,	2 NFT	8 "	2 KD
E. S. Valliant & Son Church Hill, Md.			
2-8-5,	2 NTAD	8 RT	5 MKSDc
Big Three,	1 "	9 "	3 "
Kainit,	0	0	15
6-8-5,	6 "	8 "	5 "
Acid Phosphate	0	16	0
General Crop Mixture,	1 ANTD	8 RT	1 MKSDc
Truck Guano,	2 "	8 "	3 "
W. H. Valliant & Bro., Bellevue, Md.			
Crab Phosphate, (Low Grade)	2 c	2 c	0
Fish Mixture,	2 F	8 R	2 D
King Crop Grower,	3 F	8 "	3 "
Wheat Special,	1 Fc	8 "	1 "
16% Acid Phosphate,	0	16	0
Virginia-Carolina Chem. Co., Balto., Md.			
Fish & Superphosphate,	2 NCANat	12 R	0
High Grade Potash Mixture,	0	12 "	5 MSKTDc
Special Potash Mixture,	0	10 "	4 "
Mammoth Tobacco Grower,	5 "	8 "	2 "
Tobacco Giant,	3 "	8 "	3 "
18% Acid Phosphate,	0	18	0
Plant Food for Veg. Lawns Flo	6 "	8 "	3 "
Basic Lime Phosphate (Low Grade.)	0	13	0
Tobacco Standard,	2 "	8 "	1 KSTDc
Tobacco Special,	9 "	2 "	5 "
Washington, Alexander & Cooke Co Charlestown, W. Va.			
Potato & Tobacco Manure (Low Grade)	½ t	7 R	2 K
Superphosphate,	0	16	0

Fertilizer Law of Maryland

(IN EFFECT DECEMBER 1, 1918.)

Section 1. That the term "fertilizer" as used in this Act shall mean any commercial fertilizer, or any article, substance, or mixture sold, offered, or exposed for sale, for manurial purposes in the State of Maryland of which the selling price shall be more than $5.00 per ton of two thousand pounds, but shall not include ground gypsum, lime, ground limestone, ground shells, or dung of domestic animals, in bulk, when sold as such and when not mixed with other fertilizer or fertilizer materials. The term "State Chemist" shall mean the professor in charge of the Chemical Department of the Maryland State College of Agriculture, who shall be ex-officio State Chemist. The term "brand" shall mean the full name, brand and trade-mark under which a fertilizer is sold, together with a statement of the percentage of the valuable ingredients contained in said fertilizer.

Sec. 2. That every manufacturer, jobber, or manipulator of commercial fertilizer, and materials used in the manufacture of the same, who may desire to sell or offer for sale in the State of Maryland such fertilizer or fertilizer materials before offering the same for sale shall file with the Maryland State College of Agriculture upon forms furnished by said College the name of each and every brand of fertilizer which it is desired to sell in the said State by any said manufacturer, jobber, or manipulator, or their agents, together with the name and address of said manufacturer, jobber, or manipulator, and the guaranteed analysis of said fertilizer stating the sources from which the phosphoric acid, nitrogen and potash are derived; and if the said fertilizer is sold under a different name, or names, said fact shall be stated and the different brands which are identical in composition shall be named. The said statements filed with the said College shall be published at least semi-annually together with the analyses made by, or under, the direction of the State Chemist as hereinafter provided.

Sec. 3. That every importer, manufacturer, manipulator, dealer, or agent before selling, offering, or exposing for sale, within the State of Maryland any fertilizer shall pay to the Maryland State College of Agriculture a fee of $10.00 per brand for each brand registered under Section 2 of this Act and on or before December 31st, of each year shall file with the College a statement, made under oath in due form of law, giving the total number of tons of fertilizer sold during that calendar year in the State of Maryland, and shall pay thereon an inspection tax of ten cents per ton; provided, however, goods sold in bulk to manufacturers, manipulators, or mixers for resale, of fertilizers shall not be subject to the said tax of ten cents per ton; provided further that where the tonnage tax paid in any one calendar year is in excess of the brand tax of $10.00 above provided the said brand tax shall be rebated; and provided further that when any manufacturer, dealer or importer has paid the required inspection fees no other person selling the same goods under his name and brand shall be required to pay such fee.

Sec. 4. That every bag, barrel, or package of fertilizer must bear plainly and conspicuously on the outside of same, and every parcel or lot sold in bulk must be accompanied by, a clear and true statement in legible print, and in the order herein stated, the following:

The net weight of the contents of the package or lot in pounds;
Brand name or trade-mark;
Guaranteed analysis in percentage—
Nitrogen (N) in available form or its equivalent in Ammonia (NH^3);
Available Phosphoric Acid (P^2O^5);
Potash (K^2O) soluble in distilled water;
Name and address of manufacturer.

In lieu of the available phosphoric acid above stated, the soluble phosphoric acid, and the reverted phosphoric acid, may be given; also the maximum per cent. of chlorine, and the minimum of insoluble phosphoric acid. There may also be stated on the package the source, or sources, of the several fertilizing constituents. In the case of unacidulated bone, tankage, fish or other animal, or vegetable matter, used as fertilizer, it shall be lawful to guarantee the phosphoric acid as total phosphoric acid, but it shall be unlawful to include the same constituents more than once in the guaranteed analysis of any fertilizer, either in the same form of chemical combination or in a defferent form of chemical combination; provided, however, that in the statement of the guaranteed analysis the minimum percentage only of the several constituents shall be given.

Sec. 5. That it shall be unlawful to sell, offer or expose for sale for fertilizer purposes any raw, or untreated, leather, hair, wool waste, hoof,

horn, peat, cyanogen compounds, muck, tartar pomace, mora meal, or similar materials, either as such or mixed with other fertilizer materials; provided, however, that this section shall not apply to such material as has been treated in a manner to make available the essential fertilizing constituents which it may contain; and provided further that the section shall not apply to the raw materials hereinbefore enumerated which are consigned to, or offered for sale in bulk, to manipulators, or manufacturers of fertilizers.

Sec. 6. That the words "High Grade" shall not appear upon any bag or package of any complete fertilizer containing, according to its guaranteed analysis, less than 1.65% of nitrogen (equivalent to 2% of ammonia), 10% of available phosphoric acid and 2% of potash; that the words "Medium Grade" shall not appear upon any bag or package of any complete fertilizer containing, according to its guaranteed analysis, less than 0.82% of nitrogen (equivalent to 1% of ammonia), 8% of available phosphoric acid and 1% of potash; that the words "High Grade" shall not appear upon any bag or package of acid phosphate with potash containing, according to its guaranteed analysis, less than 13% of available phosphoric acid and 1% of potash; that the words "Medium Grade" shall not appear upon any bag or package of acid phosphate with potash containing, according to its guaranteed analysis, less than 11% of available phosphoric acid and 1% of potash; that the words "High Grade" shall not appear upon any bag or package of plain acid phosphate containing, according to its guaranteed analysis, less than 16% of available phosphoric acid; that the words "Medium Grade" shall not appear upon any bag or package of plain acid phosphate containing, according to its guaranteed analysis, less than 14% of available phosphoric acid; that the words "High Grade" shall not appear upon any bag or package of ammoniated superphosphate containing, according to its guaranteed analysis, less than 10% of available phosphoric acid and 2.47% of nitrogen (equivalent to 3% of ammonia); that the words "Medium Grade" shall not appear upon any bag or package of ammoniated superphosphate containing, according to its guaranteed analysis, less than 10% of availible phosphoric acid and 0.82% of nitrogen (equivalent to 1% of ammonia); that the words "Low Grade" shall be plainly and conspicuously stamped on the outside of every bag, barrel or package of complete fertilizer which contains less than 0.82% of nitrogen (equivalent to 1% of ammonia), 8% of available phosphoric acid and 1% of potash; on the outside of every bag, barrel or package of acid phosphate with potash which contains less than 11% of available phosphoric acid and 1% of potash; on the outside of every bag, barrel or package of ammoniated superphosphate which contains less than 10% of available phosphoric acid and 0.82% of nitrogen (equivalent to 1% of ammonia); and on the outside of every bag, barrel or package of acid phosphate or dissolved rock containing less than 14% of available phosphoric acid.

Sec. 7. That each and every brand of fertilizer, or fertilizer material, filed with the Maryland State College of Agriculture must remain uniform with the guaranteed analysis of said brand, and in no case, even at a subsequent registration, shall the grade be lowered by reducing any, or all, of the several constituents contained therein.

Sec. 8. That it shall be the duty of the Maryland State College of Agriculture to procure for analysis one or more samples, in each year, as far as practicable, of all fertilizers sold, offered for sale, or used in the State of Maryland, and the State Chemist, or any agent or representative, duly authorized by him, or by the Maryland State College of Agriculture, shall have the right to take samples from any lot, or parcel, of fertilizer in the possession, or in the keeping, of any manufacturer, manipulator, dealer, agent, consumer, or transportation company, in said State of Maryland, and it shall be the duty of the Maryland State College of Agriculture to publish at least semi-annually the results of the analysis made by the said College of the samples procured by or sent to it, for such purpose, and when reporting, or publishing the result of any analysis to state the approximate commercial value in dollars and cents of the fertilizer so analyzed per ton of two thousand pounds, such value to be based upon the analysis made at the said College and upon a standard of valuation to be ascertained, fixed and published by said College as above provided after conference with the proper officials of adjacent States.

Sec. 9. Any purchaser of fertilizer, or fertilizers, provided he is not a manufacturer, or manipulator, or agent, of the same, may have taken, in the presence of a disinterested witness a sample, or samples, of said fertilizer and forward the same with all transportation charges prepaid

to the Maryland State College of Agriculture for analysis, provided, said purchaser of fertilizer or fertilizers notify the manufacturer or manipulator of the fertilizer or fertilizers from which said sample or samples are to be taken, or the Agent who sold said goods to said purchaser, by mailing notice in writing at least (6) days in advance of the taking of said sample or samples, said (6) days notice to date from the time of mailing said notice, stating the time and place at which said sample or samples are to be taken, so that the manufacturer or manipulator may have the privilege of having a representative present, or that said Agent may be present, to see that said sample or samples are taken in accordance with the rules and regulations of the Board of Trustees of the Maryland State College of Agriculture; provided, however, that if no representative of the manufacturer or manipulator, or said Agent be present, at the time of said sampling, then two disinterested witnesses, and not one as above provided, must be present that samples so taken shall be from unbroken bags, or packages, which have not been damaged or injured in transit, or by exposure, and which have not been in possession of the owner more than thirty (30) days, provided, further, that said samples be taken from at least 5% of the bags or packages comprising the brand purchased and if there are less than 100 bags, or packages, of the brand so purchased samples shall be taken from not less than 5 bags, or packages, and if there are less than 5 bags or packages samples shall be taken from each. All such samples shall be taken under such additional rules and regulations as may be prescribed by the Maryland State College of Agriculture, provided further, that every sample sent for analysis to the said College shall be fully described on forms to be furnished by said College free of charge, said description giving a full and complete statement of the time and place of sampling, of all marks on the bags or packages thereof, and of all the facts relating to the same, said description and statement shall be signed by the purchaser of the fertilizer, the person drawing the sample and the disinterested witness or witnesses as above provided; and provided, further, that the purchaser, or purchasers, sending such sample, or samples, of fertilizer to said College for analysis shall withhold said descripton or descriptions, of said sample, or samples, until he has received from the said Maryland State College of Agrculture the report of the analysis of said fertilizer. Any person, or persons, receiving an analysis from the said College as required under this Act shall immediately thereafter forward to it the statement required by this Act to be made at the time of taking the sample or samples.

Sec. 10. That it shall be the duty of the Maryland State College of Agriculture to analyze upon request, without cost or charge, all samples of fertilizer sent to said College and taken in the manner prescribed in this Act. The said College, the State Chemist, or his assistants or agents, shall not demand of any purchaser so sending sample, or samples, for analysis any advice, information, or statement, as to any analysis appearing on the original unbroken packages, or bags, from which said sample or samples were taken, or the name or names of any individual, representative, agent, or corporation or firm from which said fertilizer, or fertilizers, were purchased; and it shall be the duty of the said College, through its duly authorized agent, the State Chemist, to at once make a full and complete analysis of the sample, or samples, received in accordance with this provision and within thirty (30) days thereafter return to such person, or persons, from whom the sample, or samples, were received a full and complete analysis of said sample or samples. It shall be unlawful for any individual, representative, or agent, of any corporation or firm, or any corporation or firm itself either directly, or indirectly, to have any communication with the said College, or its chemists, agents or representatives, or the sender of any sample to said College, regarding the analysis of any fertilizer, or fertilizers, sent to the said College by the purchaser or purchasers thereof for analysis until after the report of said analysis. The Maryland State College of Agriculture, the State Chemist, their agents, or representatives, shall not furnish any information, or communicate with any manufacturer of fertilizer, about any such sample submitted for analysis until after a report of the analysis so made shall have been duly furnished to the applicant for such analysis.

Sec. 11. That any purchaser of fertilizer who shall be injured, or defrauded, by the failure of the contents of any bag, barrel, or other package of fertilizer, or any fertilizer in bulk, to conform to the statement of the quantity, quality, marks, labels on or accompanying the same, or filed with the Maryland State College of Agriculture, or who shall purchase fertilizer branded, "pure bone" when the same is adulterated with

oyster shell, or other foreign matter, even if the analysis corresponds to the guaranteed analysis on the package, may recover from the seller, or sellers, thereof in an action of debt an amount equal to the purchase money of said fertilizer and cost of suit, and in case the purchase is made of an agent, or any person, or persons, residing out of the limits of the State of Maryland, or any company, or corporation, whose principal place of business is out of the State of Maryland, the purchaser may at his, or her, option proceed by attachment as now provided for by law in case of non-resident and absconding debtors, against any property, rights or credits, of any person, or persons, company, or corporation, furnishing said fertilizer when such property rights, or credits, can be found within the State of Maryland; provided, the purchaser of any fertilizer shall not be deemed to be defrauded by a shortage in the constituents of said fertilizer when the said shortage does not exceed 5% of the amount guaranteed, but on account of said shortage shall be entitled to recover as liquidated damages the amount of the commercial value of said shortage, provided, however, should said shortage be more than 5% of the commercial value guaranteed that the purchaser shall be entitled to recover as liquidated damages twice the amount of the shortage in commercial value and provided further should a shortage in one or more constituents exceed one-fifth of the guaranteed analysis the purchaser shall be entitled to recover as liquidated damages twice the commercial value of said shortage without any compensation being allowed for any excess in other constituent or constituents except however in no event shall the purchaser be entitled to recover an amount in excess of the purchase price of said fertilizer.

Sec. 12. That the inspection and brand fees provided for in this Act shall be paid to the Maryland State College of Agriculture, and disbursed by it, to cover the cost of the analysis, inspections, sampling, printing, and for the dissemination of information regarding the contents and the analysis of fertilizers subject to this Act, the use and compounding of commercial fertilizers, and the administration and the enforcement of the provisions of this Act.

Sec. 13. That the Board of Trustees of the Maryland State College of Agriculture shall have authority to establish rules and regulations in regard to the inspection, analysis, sale of fertilizer and fertilizer materials, and the publication of all information authorized herein, to the end that the provisions of this Act may be effectively administered and enforced.

Sec. 14. That the brand fee as provided in this Act shall not apply to any fertilizer mixed according to a formula furnished by a consumer; provided, in lieu of the registration, all packages of fertilizers shall be plainly marked, or tagged, on the outside of the package with the words "Mixed to Order", together with a statement thereon of the guaranteed analysis, and in all the other particulars said mixed fertilizer shall conform to the provisions of this Act.

Sec. 15. That every person, firm, corporation, or association, guilty of a violation of any of the provisions contained in Sections No. 2, 4, 5, 6, 7 and 9 of this Act, and every officer, manager, director, or managing agent of any such person, firm, corporation, or association, directly participating in such violation, or consenting thereto, shall be punishable by a fine of $100.00 for the first offense, and, upon a second conviction, shall be punished by a fine of $500.00 or imprisonment for not more than three months, or both, at the discretion of the Court. And it shall be the duty of the State's Attorneys of the several counties of this State to prosecute all violations of any of the provisions contained in said Sections Nos. 2, 4, 5, 6, 7 and 9 brought to their attention, said prosecutions to be in the name of the State of Maryland, and the penalty recovered, when paid, to be turned into the fertilizer fund of the Maryland State College of Agriculture.

Sec. 16. That if any person, firm, or corporation, subject to the provisions of this Act shall fail to file the statement required in Section No. 3 herein regarding the tons of fertilizer sold, and to pay the inspection fee, provided therefor in this Act, within sixty (60) days after the close of the calendar year, the same shall subject said person, firm, or corporation, to a penalty, upon conviction, of One Hundred Dollars, and Two Hundred Dollars for each subsequent week that said inspection fee remains unpaid. Prosecution therefor to be entrusted to the State's Attorneys as in the preceding section provided and brought in the name of the State of Maryland, and the penalty recovered when paid, to be turned into the fertilizer fund of the Maryland State College of Agriculture.